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Analysis of Trace Metals and Hydrocarbons from
Outer Continental Shelf (OCS) Activities

Final Report Appendices

December 1987

Prepared for:

Minerals Management Service
Alaska OCS Region

by:

Battelle
Ocean Sciences

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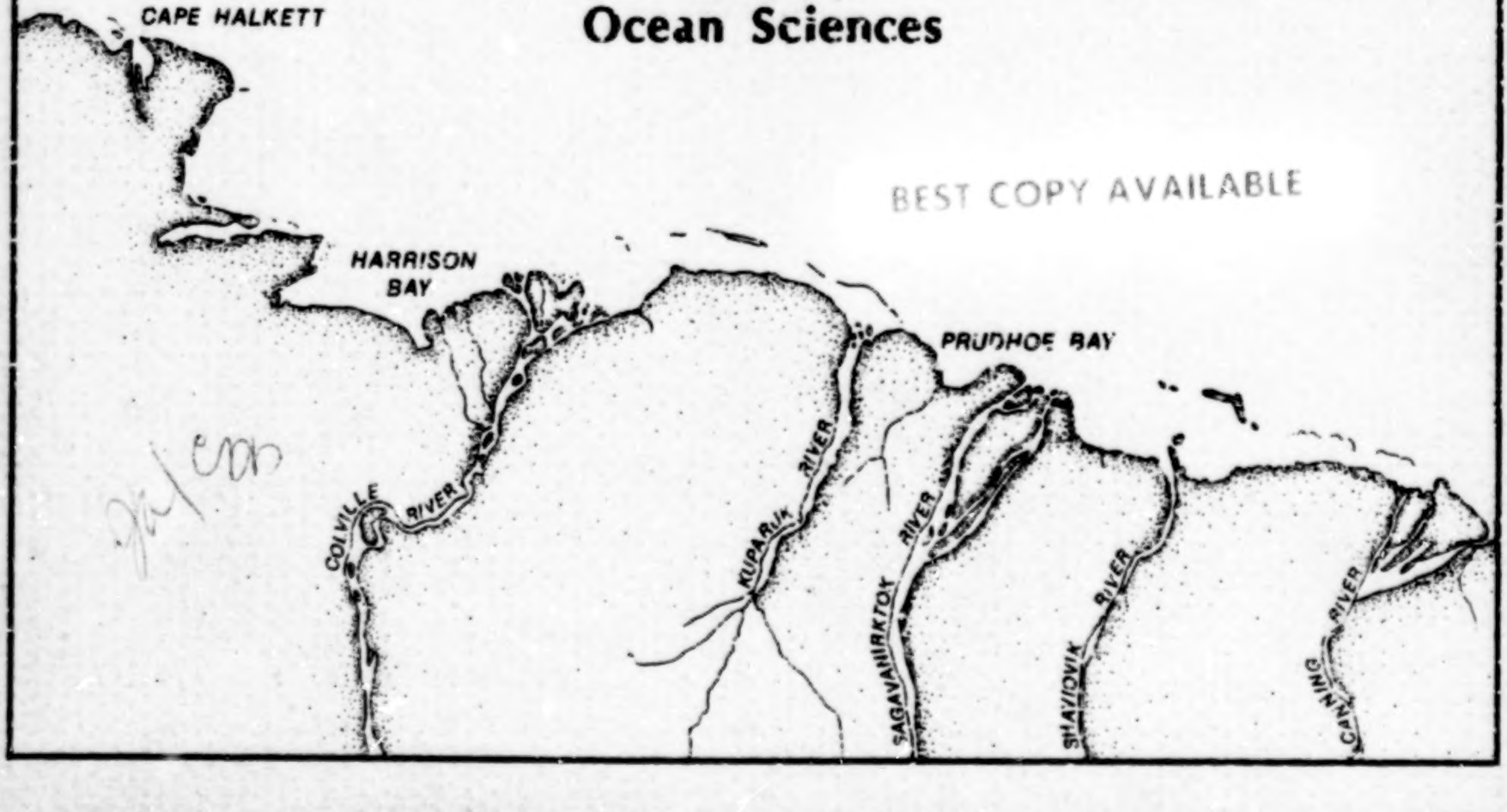

OCS Study
MMS 87-0072

FINAL REPORT

on

BEAUFORT SEA MONITORING PROGRAM: ANALYSIS OF TRACE METALS AND HYDROCARBONS FROM OUTER CONTINENTAL SHELF (OCS) ACTIVITIES

Submitted to:

Minerals Management Service
Alaska OCS Region
Anchorage, AK 99510

21 December 1987

by

Paul Boehm, Margarete Steinhauer,
Eric Crecelius, Jerry Neff, and Cary Tuckfield

BATTELLE
Ocean Sciences
397 Washington Street
Duxbury, MA 02332

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APPENDIX A

CRUISE NARRATIVES

FOR

YEAR-1, YEAR-2, AND YEAR-3

YEAR-1 CRUISE NARRATIVE

Field sampling for the first year of the BSMP was initiated on Saturday, September 1, 1984, five days after contract award. A field team, that included R.E. Ruff, Field Party Chief, W.G. Steinhauer, and J.F. Campbell, was mobilized from Battelle Ocean Sciences in Duxbury MA. During the period of 27-31 August, all of the necessary cruise gear and equipment was ordered, assembled, packaged, and rushed to Prudhne Bay, AK for loading aboard the NOAA research vessel. During this same period, the NOAA field staff, including George Lapienne and Lt. Eric Gardiner, were in Prudhoe Bay preparing the government-supplied boat and performing sea trials.

The first station sampled, Station 5D, just outside of the lee of West Dock, east of Stump Island, served as a shakedown cruise and enabled the scientific party to assess the applicability of proposed sampling procedures aboard the 11-m boat. Based on the experience at the first sampling, the weighted sediment grab (908 kg of steel weight) was exchanged for the unweighted grab that was subsequently used throughout the survey. In addition, a data station was fabricated to fit forward of the winch, a sieve frame was built to fit on the transom, and the grab stand was modified to fit between the legs of the hydraulic U-frame. Other than these minor modifications, the sampling equipment was used as planned for the remainder of the survey.

The major problem encountered in the shakedown cruise was the size and physical limitations of the 11-m research vessel. As a scientific platform, the deck space was adequate for all of the sampling operations. However, deck and cabin space were limited, and with five people aboard, the boat was quite cramped. Due to limited deck space, extra fuel could not be carried as initially anticipated. This had no effect on the Year-1 survey. However, longer excursions to the east and west are anticipated during ice-free conditions in subsequent sampling years and fuel reserve may be limiting for these future surveys. Also, because of limited deck space, the second grab sampler could not be carried onboard and had to remain at the Nana Camp logistics center. Deck space for cold storage of food and samples was also limited and barely adequate for five-day survey legs. Careful planning for the Year-2 field survey should provide an additional 0.7 to 1.1 cubic meters of frozen space to allow for longer periods at sea.

Because sampling did not begin until September, the increasing presence of sea ice throughout the Study Area was the major factor in determining the eventual cruise trackline. Ice was very much in evidence at all but the shallowest stations. In general, a heavy band of polar pack ice completely prevented the vessel from reaching the furthest offshore stations

(Stations 6E, 4D, and 3C). To the west across Harrison Bay, this accumulation followed the 15-m contour and prevented sampling at the western-most stations. East of Prudhoe, the ice remained up against the barrier islands and impinged upon the coast at Brownlow Point, thereby preventing passage into Camden Bay and sampling at the eastern-most stations. At times, the ship was taken into the pack ice in order to reach a particular station location. Because the floes in the pack were constantly in motion relative to each other, care had to be taken in order to keep the vessel from being pinched or caught in the ice. this ice motion also meant that the leads that were followed into the pack were not necessarily still present to follow back toward open water. Therefore, the stations had to be completely sampled early enough to allow sufficient daylight to locate the alternate paths back out of the ice. Grease ice was actively forming around the ice floes and inside the barrier islands and, by 12 September, this new ice stretched completely across the lagoon between Flaxman Island and the mainland. The presence of numerous ice floes and newly-formed ice slowed the cruise progress considerably and made seeking shelter behind protective barrier islands a nightly necessity. The net result was that transit time took far longer than planned, slowing the progress of the survey.

Sampling proceeded essentially as projected in the Battelle Field Survey Handbook. Inability to sample at some stations due either to ice conditions or mechanical problems was partially offset by sampling three additional stations not in the original sampling plan. Sediment samples could be quickly and efficiently collected with the Kynar-coated modified Van Veen. A total of 220 sediment samples was obtained from 27 stations occupied between the western part of Harrison Bay and Flaxman Island to the east. the photographic documentation and the hydrographic measurements were easily accomplished at each of these stations. Bivalve molluscs were more difficult to locate and occurred in very low abundances at most of the stations occupied. Concentrations of Astarte borealis were encountered at two of the mid-depth stations and Cyrtodaria kurriana was found at the shallowest station in Gwydyr Bay. At stations containing a high sediment silt-clay content, the flow rate of water available from the submersible pump proved to be inadequate for washing the large volumes of sediments necessary to obtain the required numbers of bivalves. The abundant offshore scallop, Arctinula groenlandica, could not be obtained because the pack ice precluded reaching the deepest stations. However, one otter trawl sample was taken to demonstrate that no unforeseen problems might be encountered in deploying or retrieving the net.

Several mechanical problems related to the relative newness of the vessel and to the fact that the Year-1 BSMP was essentially used as a shakedown cruise, had a direct bearing on the results obtained. The ship's alternator failed during the cruise leg into Harrison Bay. This problem essentially negated any options to occupy the offshore stations in the ice pack or to steam toward the western-most stations off Pitt Point. Because the ship was limited to battery power, the emphasis was placed on heading back toward Prudhoe Bay, and station occupation became secondary in importance. An additional full day of cruise time was lost while a replacement alternator was located and flown up from Fairbanks. During the cruise leg to the east, a faulty relay caused the low engine oil alarm to sound intermittently. This resulted in a reduction of cruising speed and frequent stops to check the engine oil level, and this problem contributed to the decision not to try to push through the ice pack and into Camden Bay. Other mechanical problems that interfered with the progress of the cruise included a sticking compass, limited range on the radar, malfunctioning panel instruments, and the lack of proper trim on the vessel, holding the top speed down to only 8 knots. These and other mechanical and design problems were communicated to MMS with the request to have modifications made before the Year-2 field effort.

The Tracor Omega-2 navigation system, that was expected to be the main navigational aid during the cruise, was not available at the start-up date. Therefore, the onboard satellite navigation system was relied upon to determine the station locations.

In spite of all the problems encountered, the first cruise of the BSMP should be rated a success. The problems inherent with arctic research were addressed, onboard techniques and procedures were worked out, and valuable experience was obtained for planning the future field efforts. In addition, a majority of the projected stations were occupied and the requisite samples were obtained for laboratory analysis. The overall success of the field effort would not have been possible without the considerable efforts of Mr. George Lapiene in preparing and maintaining the NOAA vessel, and those of Lt. Eric Gardiner, the ship's skipper, and Mr. Steve Pace for planning throughout the cruise.

YEAR-2 CRUISE NARRATIVE

Field operations for Year-2 of the BSMP were resumed early in August 1985. The revised sampling program for Year-2 included reoccupation of the majority of Year-1 stations as well as the addition of stations to the east and west that could not be reached in Year-1. Emphasis was placed on occupying stations inside of the 25-m contour, and on obtaining both bivalve and amphipod samples for tissue analyses. In addition, stations along the shoreline and in the deltas of two major rivers were selected for samples of potential source materials.

The Year-2 sampling program was more ambitious than that attempted during Year-1. Elimination of the hydrographic measurements, however, permitted the survey to be accomplished by two, rather than three, field scientists.

R. Eugene Ruff and William Steinhauer arrived in Prudhoe Bay on the evening of 6 August 1985. the scientific gear was assembled and stowed aboard the NOAA Launch No.1273 on 7-8 August, and the cruise got underway on 9 August 1985. The Year-2 BSMP field program was essentially accomplished in four legs as follows:

LEG 1 - WESTERN PRUDHOE BAY AREA: 9-12 AUGUST 1985

The first stations occupied were in Prudhoe Bay to ensure that any unforeseen problems requiring shore-based assistance could be quickly remedied. the satellite navigation system was used to position the boat within 0.3 nm of the established station positions. Where possible, a surface float tethered to an anchor was deployed at the site and the vessel was permitted to drift in the vicinity. This tactic prevented any stack gases from blowing across the work area. Stations 5(0), 5(1), 5(5), 5(10), 5A, 5B, 5D, 5E, 6A, 6B, and 6C were occupied for sediment chemistry grab samples. In addition, Station 6D was occupied for sediment grabs and bivalve samples.

The newly constructed road system on the North Slope, to the west of Prudhoe Bay, permitted the boat to be anchored at Oliktok Point rather than having to steam back to Prudhoe Bay between legs. This not only saved time, but also meant that the first shoreline peat station near Milne Point (Station 6J) could be reached via road. Between cruise legs 1 and 2, ice conditions in Harrison Bay were reconnoitered from a Cessna equipped with floats. The plane landed 6 miles upstream from the mouth of the Colville River, where a delta sample was collected (Station 6H).

LEG 2 - HARRISON BAY AND POINTS WEST: 15-18 AUGUST 1985

During the second cruise leg, Stations 5F, 6F, 6B, 7A, 7B, 7C, 7D, 7E, and 7G were sampled. Bivalves were obtained off Oliktok Point and in Gwydyr Bay. Because molluscs were not located at the proposed Station 7F location, this station was not occupied. Shore peat samples near Cape Halkett (Station 7H) and on the Kogru Peninsula (Station 7J) were obtained from a Zodiak boat because these regions were too shallow for the NOAA boat to land. The amphipod traps were routinely deployed and produced mixed results. At some stations, a large number of gammarid amphipods (Anonyx sp.) were captured, while at other stations only a few animals were obtained. In general, the amphipods were as small or smaller than the meshes (0.5 cm) of the collecting traps and could easily escape when the traps were pulled from the bottom. The traps were subsequently covered with fine nylon mesh (queen-size panty hose) to help retain the animals. Several different baits were compared and, as past experience had shown, sardines in mustard sauce were greatly preferred by the crustaceans.

The vessel arrived back at Prudhoe Bay for fueling and resupply the evening of 18 august. Between legs 2 and 3, peat samples were collected from a shore station on the east side of the bay on Heald Point (Station 5K) and from the Sagavanirktok River delta (Station 5J). Both locations were reached via road.

LEG 3 - EASTERN PRUDHOE BAY AREA: 21-23 AUGUST 1985

Stations 2F, 3A, 3B, 4A, and 4B were occupied during this leg, and shore peat samples were collected at Tigvariak and Flaxman Islands (Stations 3D and 2G, respectively). Specimens of the bivalve genus Astarte were obtained at Station 3A. As in Year-1, molluscs generally occurred in very low numbers. However, the improved bivalve washdown system employed during Year-2 permitted more grab samples to be processed and adequate numbers of bivalves to be collected. Generally, between 50 and 70 grab samples were processed at a station to obtain a sufficient number of bivalves for a sample.

The weather during leg 3 was very cold, windy and foggy. Diminished visibility and the presence of ice floes greatly increased the travel time between stations. Many of the stations were sampled at anchor because the boat rolled too heavily while adrift. The northeast wind pushed the ice pack shoreward against the barrier island, preventing access to stations further east. therefore, the boat was again anchored at Prudhoe Bay to await a shift in the weather pattern.

A break in the weather occurred on Tuesday, 27 august, with clear skies, brilliant sunshine, and a light southeast breeze. Joy Geiselman (COTR) joined the vessel for a day trip to Station 5G to observe the sampling procedures. With a forecast of continuing southerly winds, preparations were made for a push eastward into Camden Bay and out to Barter Island.

LEG 4 - CAMDEN BAY AND POINTS EAST: 28 AUGUST - 1 SEPTEMBER 1985

With the aid of observations made from the air, an easy passage through Mary Sachs Entrance west of Flaxman Island was accomplished.

Stations 1A, 1B, 1C, 1D, 1E, 2A, 2B, 2C, and 2D were successfully occupied in Camden Bay and in the vicinity of Barter Island. Because bivalves could not be located at Station 1E, they were collected nearby at Station 1A. Shore peat samples were obtained in Arey Lagoon (Station 1F) and near the Canning River (Station 2H). Station 2G was not occupied because bivalves were not located. Stations 2E and 4C were sampled on the return to Prudhoe, and a final bivalve station was established off the Endicott Causeway. All sampling was completed by late afternoon of 1 September.

Numerous factors contributed to the success of the Year-2 BSMP field effort. Unlike last year, lead time for planning, preparation, and implementation was adequate. Experience gained during the Year-1 cruise was invaluable in anticipating and solving sampling problems. The cruise was scheduled during August to take full advantage of the extended daylight and the short open water season. The elimination of the hydrographic measurements permitted the reduction in one crew member and resulted in a maximum of four, rather than five crew members onboard, a much more comfortable number for the size of the boat.

The ice reconnaissance flights were beneficial in planning and executing the short-term cruise goals. Observations made from the air had a direct bearing on the timing and route taken through the barrier islands on the east leg to Camden Bay. In addition, the ability of the plane to land on the Colville River made possible the occupation of the delta station in an otherwise inaccessible area. the expanded North Slope road system was also an asset to the overall sampling program. The fact that several areas could now be reached by truck resulted in more latitude in cruise planning as well as some direct time savings.

Finally, the personnel involved in the operations of NOAA launch No. 1273 were of tremendous help in bringing the Year-2 BSMP survey to a successful conclusion.

YEAR-3 CRUISE NARRATIVE

The field operations for Year-3 of the Beaufort Sea Monitoring Program were resumed in late July 1986. The goals for the field program included reoccupation of the 39 sediment stations sampled in Year-2 and continued emphasis on the collection of bivalve molluscs and gammarid amphipods for tissue analyses. Sampling at the shoreline peat stations sampled in Year-2 was discontinued, but additional samples for the chemical determination of source material were requested from four major river systems. Because this sampling effort was comparable to the ambitious program undertaken the previous year, the field program was initiated earlier in the season to ensure enough time to accomplish the outlined goals and to maximize the opportunities to reach the remote stations east of Flaxman Island.

R. Eugene Ruff and John S. Brown arrived in Deadhorse on the evening of 26 July 1986 after spending the day in Anchorage acquiring the final equipment and supplies, and arranging for shipment. The scientific gear was assembled, checked and stowed aboard NOAA launch No. 1273 on 27-28 July, and the research cruise got underway on 29 July 1986. As in Year-2, the Year-3 field program was essentially accomplished in four cruise legs as follows:

LEG 1 - CAMDEN BAY/EASTERN STUDY AREA: 29 JULY - 2 AUGUST 1986

It was agreed to attempt occupation of the far eastern stations in Camden Bay during the initial cruise leg. This region is often inaccessible to small boats due to pack ice that impinges against Brownlow Point, just east of Flaxman Island, blocking access to the bay. Aerial reconnaissance flown on 29 July, however, revealed that the area around Flaxman was free of heavy ice accumulations. Passage into Camden Bay was accomplished on the morning of 30 July, and during the next three days Stations 2F, 1D, 1E, 1A, 1B, 2A, 1C, 2C, 2B, and 2D were occupied for sediment chemistry sampling. The Nortec-leased airlift system, designed for infaunal sampling, was successfully employed at Station 1A to collect a large number of the bivalve Portlandia arctica, plus fewer of the larger Astarte borealis. The system was again used at Station 1B to collect A. borealis, although some problems were encountered with water vapor freezing in the air line. The amphipod Anonyx spp. was obtained at Stations 1A, 1B, and 2F using traps baited with tuna fish. The traps were also deployed at Station 1E, but virtually no specimens were captured at that location. It was planned to move as close as possible to the mouth of the Canning River and take the inflatable raft into the delta region to obtain the river sediment samples. The pack ice was moving shoreward in the vicinity, however, and it was deemed prudent to steam back toward Flaxman Island with all possible haste. Entry into the protective lagoon behind Flaxman was accomplished with some difficulty, and the river sampling was aborted for this leg.

The vessel arrived back at West Dock for resupply at 12:30 am the morning of 3 August. In the interim before the next cruise leg, the Sagavanirktok and Kuparuk Rivers were sampled at locations that were reachable via road. Depositional areas were targeted at sites upstream of the developed areas to minimize the chances of sampling drilling-related contaminants.

LEG 2 - HARRISON BAY/PITT POINT: 5-8 AUGUST 1986

During the second cruise leg, the region in the far western part of the Study Area was occupied, and Stations 7D, 7C, 7B, 7E, 7G, 7A, 6F and 6G were sampled for sediment chemistry. Use of the airlift was attempted at Station 6G to obtain the bivalve *Cyrtodaria kurriana*, but choppy water and strong currents prevented the system from operating effectively. Therefore, the grab and the washdown system utilized in previous years were employed to obtain the mollusc sample. Gammarid amphipods were obtained at Stations 7B, 7C, and 7E, but none were found at Station 6G. The traps were lined with a sturdy fine mesh which resulted in the retention of a large number of specimens when present in the sampling area.

Between cruise legs 2 and 3, the vessel was anchored at Oliktok Point rather than returning to West Dock. Fueling and resupply were easily effected at this location, and it essentially saved a full day of steaming time.

LEG 3 - WESTERN PRUDHOE BAY AREA: 10-14 AUGUST 1986

During leg 3, Stations 6B, 6D, 6C, 6A, 5E, 5B, 5A, 5F, 5(10), 5G, and 5(5) were occupied for chemistry sampling. An in-line filter was installed on the airlift to solve the water vapor and any potential contamination problems, and the system was used to collect *Astarte borealis* at Station 6D. The system

0016

was tried again at Station 5F in Gwydyr Bay to collect Cyrtodaria kurriana, but it was not successful and the bivalves were obtained by sieving the sediments from a large number (50) of grab samples. The weather during this leg was windy and very foggy, thus negating any opportunities to obtain samples from the Colville River delta.

Between cruise legs 3 and 4, Mr. Ruff was called away from Prudhoe Bay to participate in a scientific symposium in Europe. He was replaced by Mr. Jim Campbell, a veteran of the Year-1 field survey.

LEG 4 - EASTERN PRUDHOE BAY AREA: 16-19 AUGUST 1986

Prior to the departure of the final cruise leg, an ice reconnaissance was flown to assess the ice conditions in Mary Sachs Entrance west of Flaxman Island (Station 2E). This flight provided an opportunity to obtain the chemistry samples from the Colville and Canning Rivers, and sediments were taken with a small snapper grab in depositional areas from each of these locations. Ice conditions were found to be favorable, and the vessel immediately got underway before any shifts occurred in wind direction. Stations 2E, 3B, 3A, 4B, 4A, 5H, 4C, 5(1), 5(0), and 5(D) were successfully occupied for chemistry sediment samples. The airlift was employed at Station 3A for Astarte borealis but, because only one bivalve was captured after a 30 minute effort, the mollusc sample was obtained by taking multiple grabs. The grab was also used to obtain clam samples at Station 5H and 5(1). The amphipod traps were deployed at Stations 3A, 4A, and 4B with no success, and only a few Anonyx spp. were captured at Station 5H.

The final station was completed the morning of 19 August, and the vessel was offloaded that afternoon. The frozen samples and all of the scientific gear were packed up on the 20th and shipped south to Battelle New England Marine Research Laboratory.

Overall, Year-3 of the BSMP field effort was highly successful. The lead time was adequate for planning, preparation and implementation, and the experience gained on the previous two cruises was invaluable in anticipating and solving sampling and logistical problems. The cruise was initiated even earlier in the season than last year, allowing the cruise personnel to take full advantage of the extended daylight hours.

As in the past, the satellite navigation system was used to position the vessel within 0.25 nm of the established station positions. The Tracor Omega-2 navigation system was aboard again this year, but its usefulness as a tool for dead reckoning to a desired position was very limited. The satellite system was adequate for zeroing in on station, but unfortunately satellite passes were often more than an hour apart, and a great deal of time was spent hove to waiting for satellite fixes.

The airlift system employed at the bivalve stations proved to be only moderately effective. Problems were encountered with water vapor freezing and plugging the air line. This was solved by installing an in-line filter just below the pressure tanks on the compressor. A less-easily remedied problem involved the waves and/or currents in the vicinity of some of the clam stations which prevented the suction head from remaining upright and operating effectively. Even when at anchor, the vessel still swung enough to interfere with the performance. The airlift proved to be most effective in collecting *Portlandia arctica*, a species generally found in the top several centimeters of the sediment. The system was only partly successful in obtaining *Astarte borealis*, a much larger species living deeper in the substrate, and it was not useful at all in collecting *Cyrtodaria kurriana*. This latter species normally lives close to the sediment surface, but is capable of rapid burrowing when disturbed by the presence of the airlift suction head.

The amphipod traps were much more effective in collecting *Anonyx* spp. this year. The heavier mesh liner sewn into the coated wire traps greatly increased the retention of the captured specimens. However, even though amphipods are fairly ubiquitous across the continental shelf in the Beaufort Sea, they were not found at all stations where tissue samples were desired. In general, the gammarids were abundant when conditions were calm, and were not in evidence where wave activity was pronounced. In rough conditions, the scent of the tuna bait was probably dissipated before it could extend over a broad enough area of the bottom to attract a large number of specimens.

The cruise objectives this year were accomplished in a total of 25 days from vessel loading to final pack-up. This was two days shorter than the effort last year even though the number of open-water chemistry stations was the same (39 stations). As opposed to last year, however, no time was lost to weather, and the eight coastal peat stations were not re-occupied. Much of the credit for the smooth and efficient operation is due to the skipper, Mr. George Lapiene, who again this year was instrumental in bringing the final BSMP field survey to a successful conclusion.

APPENDIX B

QUALITY CONTROL RESULTS
FOR
YEAR-1, YEAR-2, AND YEAR-3

TABLE B.1 YEAR-1 ANALYSIS OF REPLICATE SAMPLES OF MESS-1, A STANDARD REFERENCE SEDIMENT.

	METALS (ppm Dry Weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	270	0.720	63	23	35.4	77	161
	270	0.740	62	29	31.9	81	168
	284	0.760	62	26	33.5	79	171
	279	0.685	64	24	37.9	77	176
	279	0.631	66	27	34.5	81	176
	275	0.667	64	30	36.5	81	170
	273	0.707	64	24	32.7	77	164
	275	0.706	63	28	32.7	84	167
Mean	275	0.702	64	26	34.4	80	169
S.D.[a]	4.8	0.041	1.3	2.6	2.1	2.6	5.3
CV(%)[b]	2	6	2	10	6	3	3
Best Value[c]	270	0.59	71	25.1	34.0	72.4	191
S.D.	-	0.10	11	3.8	6.1	5.3	17

[a] Standard Deviation

[b] Coefficient of Variation

[c] Values reported by the Marine Analytical Chemistry Standards Program, National Research Council, Canada

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TABLE B.2. YEAR-1 ANALYSIS OF REPLICATE SAMPLES OF OYSTER STANDARD 1566, A STANDARD REFERENCE TISSUE.

	METALS (ppm Dry Weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	4.43	3.84	0.69	59.7	0.50	1.34	823
	4.78	4.05	.86	59.2	0.50	0.94	815
	5.48	4.16	2.01	59.7	0.46	1.14	832
	4.98	3.95	3.88	59.7	0.46	1.14	827
	5.33	3.89	0.75	58.7	0.46	1.14	827
Mean	5.00	3.98	1.64	59.4	0.48	1.14	8.25
S.D.	0.42	0.13	1.36	0.5	0.02	0.14	6
CV(%)	8	3	83	1	5	12	1
Best Value	N/A	3.5	0.69	63.0	0.48	N/A	852
S.D.	-	0.4	0.27	3.5	0.04	-	14

N/A = Not Available.

TABLE B.3 YEAR-2 RESULTS OF FIVE REPLICATE ANALYSES OF NBS-1646 STANDARD REFERENCE SEDIMENT.

	Metals (µg/g dry weight)						
	Ba	Cd	Cr	Cu	Pb	V	Zn
	466	0.40	96	26.4	29.8	122	198
	437	0.44	81	22.3	28.9	109	186
	441	0.38	80	20.2	27.9	104	154
	396	0.41	86	21.8	27.9	105	164
	369	0.38	86	20.5	28.9	103	154
Mean	422	0.40	86	22.2	28.7	109	171
S.D.	35	0.02	6	2.2	0.7	7	18
CV (%)	8	5	7	10	3	6	10
Best Value	-	0.36	76	18	28.2	94	138
S.D.	-	0.07	3	3	1.8	1	6

TABLE B.4 YEAR-2 RESULTS OF FIVE REPLICATE ANALYSES OF MESS-1 STANDARD REFERENCE SEDIMENT.

	Metals (µg/g dry weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	287	0.79	59	30.8	35.6	85	229
	296	0.76	62	31.2	36.6	86	222
	283	0.71	60	29.2	37.5	83	206
	272	0.71	63	28.7	37.5	81	208
	312	0.71	60	37.6	35.2	101	250
Mean	290	0.74	61	31.5	36.5	87	223
S.D.	13	0.03	2	3.2	0.9	7	16
CV (%)	5	4	3	10	3	8	7
Best Value	270	0.59	71	25.1	34.0	72.4	191
S.D.	-	0.10	11	3.8	6.1	5.3	17

TABLE B.5 YEAR-2 RESULTS OF FIVE REPLICATE ANALYSES OF OYSTER STANDARD 1566 REFERENCE TISSUE.

	Metals (µg/g dry weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	5.4	3.44	0.52	67.7	0.52	2.1	936
	5.5	3.86	0.48	67.2	0.48	2.2	926
	5.6	3.76	0.60	66.4	0.48	2.2	903
	5.3	3.65	0.51	65.5	0.45	2.3	888
	5.2	3.69	0.40	64.8	0.47	2.4	885
Mean	5.4	3.68	0.50	66.3	0.48	2.2	908
S.D.	0.1	0.14	0.06	1.1	0.02	0.1	20
CV (%)	3	4	13	2	4	5	2
Best Value	N/A	3.5	0.69	63.0	0.48	N/A	852
S.D.	-	0.4	0.27	3.5	0.04	-	14

TABLE B.6 YEAR-3 RESULTS OF FIVE REPLICATE ANALYSES OF MESS-1 STANDARD REFERENCE SEDIMENT.

	Metals(μg/g dry weight)						
	Ba	Cd	Cr	Cu	Pb	V	Zn
	284	0.65	67.0	26.5	36.7	75.9	191
	291	0.72	74.8	25.0	36.0	75.7	225
	281	0.64	70.6	27.9	40.1	79.4	177
	275	0.65	70.0	29.0	30.3	79.1	165
	286	0.64	70.9	26.7	31.7	78.8	184
Mean	283	0.66	70.7	27.0	35.0	77.8	188
SD	5	0.03	2.5	1.4	3.5	1.6	20
CV(%)	2	5	4	5	10	2	10
Best Value	270	0.59	71	25.1	34.0	72.4	191
SD	-	0.10	11	3.8	6.1	5.3	17

TABLE B.7 YEAR-3 RESULTS OF FIVE REPLICATE ANALYSES OF OYSTER STANDARD 1566 REFERENCE TISSUE.

	Metals(µg/g dry weight)						
	Ba	Cd	Cr	Cu	Pb	V	Zn
	2.89	3.97	0.54	59.0	0.48	1.80	771
	3.14	3.90	0.44	59.3	0.43	1.85	775
	2.94	3.98	0.44	59.1	0.47	1.85	777
	2.87	3.92	0.44	59.2	0.45	1.86	774
	3.30	3.94	0.44	59.1	0.44	1.78	788
Mean	3.03	3.94	0.46	59.1	0.45	1.83	777
SD	0.17	0.03	0.04	0.1	0.02	0.03	6
CV(%)	5	1	9	0	4	2	1
Best Value	N/A	3.5	0.69	63.0	0.48	N/A	852
SD	-	0.4	0.27	3.5	0.04	-	14

TABLE B.8 YEAR-1 ANALYSIS OF REPLICATE PROCEDURAL BLANKS FOR SEDIMENT DIGESTION.

	METALS (ppm Dry Weight)						
	Ba	Cd	Cr	Cu	Pb	V	Zn
	1.8	0.100	8.6	1.60	1.60	1.0	3.0
	1.6	0.100	8.4	0.80	1.60	1.80	4.0
	1.8	0.100	9.2	0.80	1.60	1.60	3.8
	1.6	0.100	9.2	0.40	1.28	1.0	3.4
	2.0	0.100	10.0	0.80	1.60	1.6	10.0
Mean	1.8	0.100	9.08	0.88	1.54	1.4	4.84
S.D.	0.17	0.0	0.63	0.44	0.14	0.37	2.91
CV (%)	9	0	7	50	9	27	60
Detection Limit	0.4	0.04	1.2	0.9	0.3	0.4	6.0

TABLE B.9 YEAR-1 ANALYSIS OF REPLICATE PROCEDURAL BLANKS FOR TISSUE DIGESTION.

	METALS (ppm Dry Weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	0.040	0.053	0.04	0.40	0.55	0.80	0.90
	0.040	0.053	0.07	0.40	0.50	2.20	1.00
	0.060	0.107	0.07	1.00	0.55	1.00	1.00
	0.040	0.053	0.08	0.40	0.50	0.80	1.00
	0.040	0.053	0.09	0.40	0.55	0.80	1.00
Mean	0.044	0.064	0.07	0.52	0.53	1.12	0.98
S.D.	0.009	0.024	0.02	0.27	0.03	0.61	0.05
CV (%)	20	38	27	52	5	54	5
Detection Limit	0.01	0.04	0.04	0.5	0.06	1.2	0.1

TABLE B.10 YEAR-2 RESULTS OF FIVE REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR SEDIMENT DIGESTION.

	Metals (µg/g dry weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	0.0	0.02	0.0	0.7	0.42	0.5	1.5
	0.0	0.01	0.0	0.6	0.34	0.0	0.0
	0.0	0.02	0.0	0.0	0.25	0.0	0.0
	0.8	0.01	0.1	0.4	0.43	0.0	1.3
	0.7	0.01	0.1	0.9	0.26	0.0	0.5
Mean	0.3	0.014	0.04	0.52	0.34	0.1	0.46
S.D.	0.4	0.005	0.05	0.31	0.08	0.2	0.55
CV(%)	133	35	122	59	22	200	120
Detection Limit	0.8	0.010	0.10	0.62	0.16	0.4	1.1

TABLE B.11 YEAR-2 RESULTS OF FIVE REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR TISSUE DIGESTION.

	Metals (µg/g dry weight)						
	Ba	Cd	Cr	Cu	Pb	V	Zn
	0.0	0.10	0.60	0.2	0.31	0.2	0.2
	0.0	0.10	0.60	0.0	0.36	0.0	0.1
	0.0	0.10	0.63	0.0	0.30	0.0	0.0
	0.0	0.10	0.58	0.0	0.37	0.0	0.0
	0.0	0.10	0.60	0.1	0.36	0.4	3.2
Mean	0.0	0.10	0.60	0.06	0.34	0.12	0.7
S.D.	-	0.00	0.02	0.08	0.03	0.16	1.3
CV (%)	-	0	3	133	9	133	179
Detection Limit	0.2	0.2	0.04	0.16	0.06	0.32	2.6

TABLE B.12 YEAR-3 RESULTS OF FIVE REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR SEDIMENT DIGESTION.

	Metals(μg/g dry weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	<0.24	0.026	5.47	<0.48	<0.50	<1.20	<2.39
	<0.24	0.026	5.01	<0.48	<0.50	<1.20	<2.39
	<0.24	0.026	4.77	<0.48	<0.50	<1.20	<2.39
	<0.24	0.026	5.03	<0.48	<0.50	<1.20	<2.39
	<0.24	0.053	5.66	<0.48	<0.50	<1.20	1.70
Mean	<0.24	0.031	5.19	<0.48	<0.50	<1.20	-
SD	-	0.011	0.33	-	-	-	-
CV(%)	-	35	6	-	-	-	-
Detection Limit	0.48**	0.022*	0.66*	0.96**	1.00**	2.40**	4.78**

*Detection limit = 2 x the standard deviation.

**Detection limit = 2 x the "less than" value of the blank.

TABLE B.13 YEAR-3 RESULTS OF FIVE REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR TISSUE DIGESTION.

	Metals(µg/g dry weight)						
	Ba	Cd	Cr	Cu	Pb	V	Zn
	<0.09	0.18	0.13	<0.19	0.15	<0.46	1.79
	<0.09	0.18	0.08	<0.19	0.17	<0.46	2.23
	<0.09	0.18	0.08	<0.19	0.16	<0.46	4.47
	<0.09	0.09	0.08	<0.19	0.16	<0.46	0.22
	<0.09	0.18	0.13	<0.19	0.14	<0.46	1.34
Mean	<0.09	0.16	0.10	<0.19	0.16	<0.46	2.01
SD	-	0.04	0.02	-	0.01	-	1.40
CV(%)	-	22	24	-	6	-	70
Detection Limit	0.18**	0.08*	0.04*	0.38**	0.02*	0.98**	2.80*

*Detection limit = 2 x the standard deviation.

**Detection limit = 2 x the "less than" value of the blank.

TABLE B.14 YEAR-1 ANALYSIS OF REPLICATE SAMPLES OF REAGENTS TO ESTABLISH REAGENT BLANK FOR SEDIMENT DIGESTION.

	METALS (ppm Dry Weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	6.0	0.100	2.6	7.0	1.92	10.0	8.1
	5.0	0.120	2.6	3.0	1.60	6.0	7.0
	5.0	0.140	2.4	3.0	1.92	5.0	7.0
Mean	5.3	0.12	2.5	4.3	1.81	7.0	7.4
S.D.	0.58	0.02	0.12	2.3	0.18	2.65	0.64
CV (%)	11	17	5	54	10	38	9

TABLE B.15 YEAR-2 RESULTS OF FIVE REPLICATE ANALYSES OF REAGENTS TO ESTABLISH REAGENT BLANK FOR SEDIMENT DIGESTION.

	Metals (µg/g dry weight)						
	Ba	Cd	Cr	Cu	Pb	V	Zn
	0.0	0.02	0.0	0.0	0.43	0.4	0.0
	0.0	0.02	0.0	0.0	0.68	0.2	0.1
	0.0	0.02	0.0	0.0	0.51	0.5	0.0
Mean	0.0	0.02	0.0	0.0	0.54	0.4	0.03
S.D.	0.0	0	0.0	0.0	0.10	0.1	0.05
CV (%)	0	0	0	0	19	25	157

TABLE B.16 YEAR-3 RESULTS OF FIVE REPLICATE ANALYSES OF REAGENTS TO ESTABLISH REAGENT BLANK FOR SEDIMENT DIGESTION.

	Metals(µg/g dry weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	<0.20	0.010	6.30	<0.46	0.25	<1.15	5.94
	<0.20	0.005	5.20	<0.46	0.22	<1.15	5.94
	<0.20	<0.005*	5.20	<0.46	0.22	<1.15	5.34
	<0.20	<0.005*	5.20	<0.46	0.25	<1.15	4.75
	<0.20	0.010	4.20	<0.46	0.22	<1.15	2.97
Mean	<0.20	0.005	5.22	<0.46	0.23	<1.15	4.99
SD	-	0.004	0.66	-	0.01	-	1.10
CV(%)	-	89	13	-	6	-	22

*For Cd mean determination, "less than" value = 0.

TABLE B.17 YEAR-1 ANALYSIS OF REPLICATE SAMPLES OF REAGENTS TO ESTABLISH REAGENT BLANK FOR TISSUE DIGESTION.

	METALS (ppm Dry Weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	0.2	0.107	.04	0.2	0.50	0.4	0.4
	0.2	0.160	.07	0.2	0.63	1.1	0.5
	0.3	0.040	.07	0.5	0.55	0.5	0.5
Mean	0.23	0.10	0.06	0.3	0.56	0.67	0.47
S.D.	0.05	0.06	0.02	0.14	0.07	0.31	0.05
CV (%)	22	60	29	47	12	46	10

TABLE B.18 YEAR-2 RESULTS OF FIVE REPLICATE ANALYSES OF REAGENTS TO ESTABLISH REAGENT BLANK FOR TISSUE DIGESTION.

	Metals (µg/g dry weight)						
	Ba	Cd	Cr	Cu	Pb	V	Zn
	0.0	0.09	0.07	0.6	0.27	0.0	0.2
	0.0	0.09	0.23	0.4	0.37	0.0	2.9
	0.0	0.09	0.17	0.2	0.36	0.2	0.0
	0.1	0.09	0.08	0.4	0.33	0.0	1.6
	0.0	0.09	0.10	0.0	0.28	0.0	0.3
Mean	0.02	0.09	0.13	0.32	0.32	0.04	1.0
S.D.	0.04	0.00	0.06	0.20	0.04	0.08	1.1
CV (%)	200	0	47	64	13	200	110

TABLE B.19 YEAR-3 RESULTS OF FIVE REPLICATE ANALYSES OF REAGENTS TO ESTABLISH REAGENT BLANK FOR TISSUE DIGESTION.

	Metals(µg/g dry weight)						
	Ba	**Cd**	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	<0.09	0.002	0.04	<0.18	0.03	<0.46	0.228
	<0.09	0.005	0.04	<0.18	0.05	<0.46	0.228
	<0.09	0.005	0.04	<0.18	0.05	<0.46	0.228
	<0.09	0.005	0.04	<0.18	<0.02*	<0.46	0.228
	<0.09	0.007	0.04	<0.18	0.03	<0.46	0.228
Mean	<0.09	0.005	0.04	<0.18	0.03	<0.46	0.228
SD	-	0.002	0	-	0.02	-	0
CV(%)	-	32	0	-	61	-	0

* For Pb mean determination, "less than" value = 0.

TABLE B.20 YEAR-1 COMPARISON OF TECHNIQUES FOR DETERMINATION OF THE CONCENTRATION OF METALS IN SEDIMENTS.

	METALS			
	Ba	Cu	Pb	Zn
	Station 5(1) (5 Replicate Field Grab Samples)			
Mean XRF	235	14.4	7.06	41.7
S.D.	18	2.7	1.30	3.9
Mean ICAP	237	9.0		34.6
S.D.	18	2.7		2.2
Mean ZGFAA			4.92	
S.D.			0.33	
	Station 5A (5 Replicate Field Grab Samples)			
Mean XRF	456	23.2	10.52	86.2
S.D.	167	2.8	2.06	5.3
Mean ICAP	541	20.6		65.4
S.D.	74	1.1		5.4
Mean ZGFAA			9.13	
S.D.			0.87	

TABLE B.21 YEAR-2 COMPARISON OF THE RESULTS USING DIFFERENT ANALYTICAL TECHNIQUES FOR DETERMINATION OF THE CONCENTRATION OF METALS IN SEDIMENTS.

	Metals (µg/g dry weight)					
	Ba	Cr	Cu	Pb	V	Zn
	Station 5A mud fraction (3 replicate composites)					
Mean XRF	641	87	21.8	8.6	87	83
S.D.	17	2	3.0	1.2	10	4
Mean ICAP	419	63	18.6	-	97	78
S.D.	82	1	0.3	-	2	1
Mean ZGFAA	-	-	-	11.3	-	-
S.D.	-	-	-	0.6	-	-
	Station 5D mud fraction (3 replicate composites)					
Mean XRF	423	111	18.1	6.7	119	83
S.D.	3	11	1.3	1.1	9	3
Mean ICAP	203	62	17.3	-	88	82
S.D.	150	4	0.9	-	5	2
Mean ZGFAA	-	-	-	8.3	-	-
S.D.	-	-	-	0.6	-	-
	Station 6B mud fraction (3 replicate composites)					
Mean XRF	668	113	33.6	14.1	136	113
S.D.	67	12	2.1	1.9	9	7
Mean ICAP	523	90	31.9	-	143	117
S.D.	35	2	0.3	-	5	2
Mean ZGFAA	-	-	-	15.4	-	-
S.D.	-	-	-	1.0	-	-

TABLE B.22 YEAR-3 COMPARISON OF THE RESULTS USING DIFFERENT ANALYTICAL TECHNIQUES FOR DETERMINATION OF THE CONCENTRATION OF METALS IN SEDIMENTS.

	Metals(µg/g dry weight)					
	Ba	**Cr**	**Cu**	**Pb**	**V**	**Zn**
	Station 5A mud fraction (3 replicate composites)					
Mean XRF	562	79	25.3	11.7	126	84
SD	18	17	0.5	1.6	8	3
Mean ICAP	404	81	19.8	-	112	79
SD	5	2	0.3	-	2	5
Mean ZGFAA	-	-	-	10.4	-	-
SD	-	-	-	0.4	-	-
	Station 5D mud fraction (3 replicate composites)					
Mean XRF	406	97	17.8	9.7	100	86
SD	16	3	2.5	3.8	4	1
Mean ICAP	309	84	15.7	-	92	75
SD	11	2	0.4	-	1	3
Mean ZGFAA	-	-	-	5.6	-	-
SD	-	-	-	1.7	-	-
	Station 6B mud fraction (3 replicate composites)					
Mean XRF	729	103	37.7	16.0	147	118
SD	10	13	2.8	1.1	23	3
Mean ICAP	473	109	36.9	-	151	126
SD	40	0	0.2	-	12	10
Mean ZGFAA	-	-	-	14.2	-	-
SD	-	-	-	0.5	-	-

TABLE B.23 YEAR-1 CONCENTRATIONS OF TOTAL SATURATED HYDROCARBONS (F1) AND SELECTED HYDROCARBON PARAMETERS IN NOAA REFERENCE SEDIMENTS.

Parameter	**Replicate No.** **1**	**2**	**3**	**$\bar{x}$**	**± sd**
Total Saturated Hydrocarbons ($\mu g/g$ dry weight)	10.39	10.89	9.93	10.40	± 0.48
% Resolved	15	15	14	15	± 1
% Unresolved	85	85	86	85	± 1
Pris/n-C_{17}	0.70	0.61	0.62	0.64	± 0.05
Phy/n-C_{18}	0.29	0.22	0.26	0.26	± 0.03
Pris/Phy	1.21	1.73	1.45	1.46	± 0.26
OEPI[a]	6.44	5.91	5.87	6.07	± 0.32

[a] Odd-Even Predominance Index as defined by Boehm (1984).

TABLE B.24 YEAR-1 CONCENTRATIONS OF N-ALKANES IN NOAA REFERENCE SEDIMENT.

n-Alkane Carbon No.	Concentration (ng/g dry wt.)					
	Replicate No.					
	1	2	3	$\bar{x}$	±	sd
10	8	3	3	5	±	3
11[a]	308	357	285	317	±	37
12	3	4	3	3	±	1
13	4	4	4	4	±	0
14	3	5	4	4	±	1
15	9	10	10	10	±	1
16	24	21	20	22	±	2
17	9	12	11	11	±	2
18	18	18	8	15	±	6
19	16	12	15	14	±	2
20	8	8	8	8	±	0
21	50	50	48	49	±	1
22	18	14	12	15	±	3
23	26	20	17	21	±	5
24	26	16	14	19	±	6
25	41	34	30	35	±	6
26	30	23	20	24	±	5
27	75	73	62	70	±	7
28	38	34	29	34	±	4
29	160	178	149	162	±	15
30	6	28	23	19	±	12
31	237	267	220	241	±	24
32	24	22	19	22	±	3
33	90	113	75	93	±	19

[a] Elevated value due to contamination.

TABLE B.25 YEAR-1 CONCENTRATIONS OF POLYCYCLIC AROMATIC HYDROCARBONS (PAH) IN NOAA REFERENCE SEDIMENT.

	Concentration (ng/g dry wt.)					
	Replicate No.					
Compound	1	2	3	$\bar{x}$	±	sd
Naphthalene	1	2	3	2	±	1
C_1-Naphthalenes	1	2	1	1	±	1
C_2-Naphthalenes	1	2	2	2	±	1
C_3-Naphthalenes	1	2	1	1	±	1
C_4-Naphthalenes	ND	ND	ND			
Biphenyl	<1	1	3			
C_1-Biphenyls	<1	<1	<1			
C_2-Biphenyls	ND	<1	ND			
C_3-Biphenyls	ND	ND	ND			
C_4-Biphenyls	ND	ND	ND			
Phenanthrenes	3	4	2	3	±	1
C_1-Phenanthrenes	6	8	5	6	±	2
C_2-Phenanthrenes	4	7	4	5	±	2
C_3-Phenanthrenes	1	3	1	2	±	1
C_4-Phenanthrenes	1	1	<1			
Dibenzothiophene	<1	<1	<1			
C_1-Dibenzothiophene	<1	1	<1			
C_2-Dibenzothiophene	1	2	<1			
C_3-Dibenzothiophene	ND	1	ND			
Fluoranthene	6	10	6	7	±	2
Pyrene	8	11	8	9	±	2
Benzo(a)anthracene	3	13	3	6	±	6
Chrysene	5	12	4	7	±	4
Benzofluoranthene	25	56	25	35	±	18
Benzo(a)pyrene	9	20	9	13	±	6
Benzo(e)pyrene	6	18	6	10	±	7
Perylene	41	61	43	48	±	11

TABLE B.26 YEAR-2 SATURATED HYDROCARBON CONCENTRATIONS FOR NOAA TEST SEDIMENTS.

	NOAA-D3 (Jar 1)	NOAA-D3 (Jar 2)	NOAA-D3 (Jar 3)
Compound	**Concentration (µg/g dry weight)**		
n-C_{14}	<D.L.	0.03	0.02
n-C_{15}	0.05	0.04	0.05
n-C_{16}	0.52	0.05	0.06
Isoprenoid	<D.L.	0.05	0.03
n-C_{17}	0.06	0.05	0.02
Pristane	0.12	0.14	0.15
n-C_{18}	0.06	0.10	0.08
Phytane	<D.L.	0.11	0.08
n-C_{19}	0.06	0.07	0.11
n-C_{20}	0.12	0.18	0.18
n-C_{21}	0.08	0.13	0.13
n-C_{22}	0.09	0.24	0.12
n-C_{23}	0.07	0.30	0.18
n-C_{24}	0.10	0.21	0.05
n-C_{25}	0.19	0.54	0.41
n-C_{26}	0.17	0.41	0.41
n-C_{27}	0.50	1.04	1.06
n-C_{28}	0.41	0.70	0.78
n-C_{29}	0.83	1.38	1.51
n-C_{30}	0.27	0.57	0.67
n-C_{31}	0.94	1.13	1.44
n-C_{32}	0.27	0.25	0.46
n-C_{33}	0.19	0.13	0.38
n-C_{34}	0.16	0.25	0.29
TOTAL RESOLVED CONCENTRATION	22.6	51.6	51.3
TOTAL UNRESOLVED CONCENTRATION	157.9	217.0	199.2

TABLE B.27 YEAR-2 POLYCYCLIC AROMATIC HYDROCARBON (PAH) CONCENTRATIONS FOR NOAA TEST SEDIMENTS.

	NOAA-D3 (Jar 1)	NOAA-D3 (Jar 2)	NOAA-D3 (Jar 3)
Compound	Concentration (µg/g dry weight)		
Naphthalene	0.23	0.21	0.19
C_1N	0.23	0.23	0.20
C_2N	0.36	0.36	0.37
C_3N	0.34	0.47	0.43
C_4N	0.08	0.09	0.07
Biphenyl	0.07	0.07	0.06
Fluorene	0.36	0.36	0.37
C_1F	0.15	0.29	0.29
C_2F	0.14	0.32	0.16
C_3F	<D.L.	0.44	<D.L.
Phenanthrene	2.34	2.34	2.31
C_1P	0.98	1.11	0.96
C_2P	0.76	0.74	0.64
C_3P	0.31	0.37	0.26
C_4P	<D.L.	<D.L.	<D.L.
Dibenzothiophene	0.16	0.16	0.16
C_1D	0.10	0.13	0.11
C_2D	0.24	0.17	0.21
C_3D	<D.L.	0.10	0.09
Fluoranthene	3.74	3.74	3.28
Pyrene	4.14	4.37	3.96
Benzanthracene	1.75	1.86	1.68
Chrysene	2.02	2.53	2.45
Benzofluoranthene	4.11	4.67	4.65
Benzo(e)pyrene	1.65	2.02	1.74
Benzo(a)pyrene	1.70	2.37	2.00
Perylene	0.53	0.86	0.74
TOTAL PAH (Sum of Above Compounds)	26.46	30.39	27.37

TABLE B.28 YEAR-2 SATURATED HYDROCARBON CONCENTRATIONS FOR NOAA TEST TISSUE HOMOGENATE M-2.

	Replicate 1	Replicate 2	Replicate 3
	Concentration (µg/g wet weight)		
n-C_{14}	0.07	0.07	0.09
n-C_{15}	0.17	0.12	0.15
n-C_{16}	0.22	0.12	0.14
Isoprenoid	0.11	0.08	0.11
n-C_{17}	0.30	0.19	0.18
Pristane	0.59	0.37	0.37
n-C_{18}	0.19	0.11	0.17
Phytane	0.21	0.11	0.11
n-C_{19}	0.19	0.11	0.11
n-C_{20}	0.23	0.12	0.11
n-C_{21}	0.17	0.10	0.09
n-C_{22}	0.17	0.08	0.08
n-C_{23}	0.13	0.07	0.06
n-C_{24}	0.10	0.05	0.05
n-C_{25}	0.12	0.06	0.05
n-C_{26}	0.10	0.04	0.03
n-C_{27}	0.12	0.06	0.05
n-C_{28}	0.17	0.10	0.08
n-C_{29}	0.29	0.17	0.14
n-C_{30}	0.42	0.26	0.20
n-C_{31}	0.50	0.30	0.23
n-C_{32}	0.32	0.24	0.15
n-C_{33}	0.28	0.20	0.13
n-C_{34}	0.28	0.17	0.12
TOTAL RESOLVED HYDROCARBON CONCENTRATION	14.36	8.00	8.70
TOTAL UNRESOLVED HYDROCARBON CONCENTRATION	15.98	4.09	6.44

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TABLE B.29 YEAR-2 POLYCYCLIC AROMATIC HYDROCARBON (PAH) CONCENTRATIONS FOR NOAA TEST TISSUE HOMOGENATE M-2.

	m/e	Replicate 1	Replicate 2	Replicate 3
		Concentration (μg/g wet weight)		
Naphthalene	128	0.04	0.04	0.02
C_1N	142	0.44	0.33	0.39
C_2N	156	0.85	0.72	0.85
C_3N	170	0.56	0.47	0.60
C_4N	184	0.07	0.11	0.10
Biphenyl	154	0.07	0.05	0.07
Fluorene	166	0.07	0.07	0.08
C_1F	180	0.08	0.06	0.08
C_2F	194	0.05	0.03	0.06
C_3F	208	0.01	<D.L.	0.02
Phenanthrene	178	0.12	0.11	0.11
C_1P	192	0.35	0.27	0.34
C_2P	206	0.13	0.10	0.18
C_3P	220	0.04	0.03	0.04
C_4P	234	<D.L.	<D.L.	0.01
Dibenzothiophene	184	0.05	0.04	0.05
C_1D	198	0.07	0.04	0.06
C_2D	212	0.03	0.02	0.03
C_3D	226	<D.L.	<D.L.	0.01
Fluoranthene	202	0.07	0.06	0.07
Pyrene	202	0.04	0.04	0.04
Benzanthracene	228	0.03	0.03	0.03
Chrysene	228	0.03	0.04	0.04
Benzfluoranthene	252	0.04	0.03	0.04
Benz(e)pyrene	252	0.01	0.01	0.02
Benz(a)pyrene	252	0.01	0.03	0.01
Perylene	252	<D.L.	0.03	0.01
TOTAL PAH (Sum of Above Compounds)		3.17	2.76	3.37

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TABLE B.30 YEAR-2 MEAN CONCENTRATIONS OF HYDROCARBONS IN DUWAMISH III REFERENCE SEDIMENT DETERMINED BY THREE NATIONAL MARINE FISHERIES (NMF) LABORATORIES.

HYDROCARBONS	NMF, Seattle			NMF, Gloucester	NMF, Charleston
	Concentrations (ng/g dry weight)[a]				
Naphthalene	320 (11)	320 (15)	420 (18)	250 (21)	330 (11)
2-Methylnaphthalene	160 (17)	150 (4)	200 (33)	110 (19)	180 (6)
1-Methylnaphthalene	120 (16)	110 (5)	150 (32)	80 (16)	150 (8)
Biphenyl	39 (13)	21 (7)	37 (23)	31 (8)	57 (7)
2,6-Dimethylnaphthalene	70 (10)	75 (7)	78 (16)	58 (15)	76 (4)
Acenaphthene	300 (22)	310 (8)	300 (2)	290 (16)	420 (9)
Fluorene	310 (3)	330 (5)	330 (9)	290 (18)	430 (10)
Phenanthrene	2300 (8)	2300 (7)	2400 (5)	2200 (9)	3200 (6)
Anthracene	510 (3)	590 (9)	550 (2)	650 (16)	730 (2)
1-Methylphenanthrene	220 (11)	220 (7)	220 (5)	410 (52)	320 (10)
Fluoranthene	3900 (9)	4000 (6)	3900 (4)	3700 (4)	5600 (7)
Pyrene	4100 (5)	4400 (3)	4200 (4)	3900 (5)	5800 (6)
Benz(a)anthracene	1500 (7)	1900 (8)	1700 (3)	1400 (5)	2100 (10)
Chrysene	2600 (7)	3800 (15)	2700 (4)	2100 (7)	3600 (6)
Benzo(e)pyrene	1600 (4)	2000 (8)	1700 (3)	1400 (5)	2000 (9)
Benzo(a)pyrene	1800 (3)	2220 (3)	1800 (3)	1700 (7)	2700 (6)
Perylene	510 (2)	640 (5)	550 (5)	460 (8)	710 (5)
Dibenz(a,h)anthracene	310 (4)	470 (11)	280 (2)	310 (5)	430 (7)

[a] Results expressed as means (n=3)
Relative standard deviations expressed as a percent of the mean shown in parentheses.

TABLE B.31 YEAR-3 SATURATED HYDROCARBON CONCENTRATIONS FOR CANADIAN TEST SEDIMENT HS-2.

Compound	Replicate A	Replicate B	Replicate C
	Concentration(μg/g dry weight)		
n-C$_{14}$	0.14	0.18	0.14
n-C$_{15}$	0.28	0.28	0.24
n-C$_{16}$	0.41	0.46	0.37
Isoprenoid	0.55	0.60	0.49
n-C$_{17}$	0.59	0.56	0.46
Pristane	4.97	5.39	4.30
n-C$_{18}$	0.46	0.51	0.41
Phytane	1.22	1.33	1.06
n-C$_{19}$	0.63	0.76	0.64
n-C$_{20}$	0.47	0.46	0.39
n-C$_{21}$	0.63	0.67	0.54
n-C$_{22}$	0.39	0.41	0.32
n-C$_{23}$	0.63	0.63	0.53
n-C$_{24}$	0.40	0.37	0.37
n-C$_{25}$	0.68	0.59	0.54
n-C$_{26}$	0.42	0.43	0.41
n-C$_{27}$	0.89	0.85	0.73
n-C$_{28}$	0.59	0.53	0.44
n-C$_{29}$	2.06	1.74	1.39
n-C$_{30}$	0.72	0.42	0.31
n-C$_{31}$	0.27	1.77	1.81
n-C$_{32}$	0.38	0.64	0.52
n-C$_{33}$	1.09	0.76	0.63
n-C$_{34}$	0.31	0.52	0.13
TOTAL RESOLVED HYDROCARBON CONCENTRATION	34.6	38.3	38.7
TOTAL UNRESOLVED HYDROCARBON CONCENTRATION	198.7	264.9	292.6

TABLE B.32 YEAR-3 POLYCYCLIC AROMATIC (PAH) CONCENTRATIONS FOR CANADIAN TEST SEDIMENT HS-2.

Compound	Replicate A	Replicate B	Replicate C
	Concentration(μg/g dry weight)		
Naphthalene	0.13	0.17	0.12
C_1N	0.30	0.41	0.30
C_2N	0.50	0.78	0.59
C_3N	0.59	1.12	0.83
C_4N	0.20	0.61	0.52
Biphenyl	0.05	0.06	0.04
Fluorene	0.29	0.32	0.15
C_1F	0.14	0.25	0.14
C_2F	0.19	0.38	0.27
C_3F	0.14	0.51	0.34
Phenanthrene	3.30	3.71	2.16
C_1P	0.93	1.33	0.90
C_2P	0.48	1.14	0.81
C_3P	0.22	0.80	0.60
C_4P	0.29	0.76	0.38
Dibenzothiophene	0.21	0.24	0.16
C_1D	0.10	0.21	0.16
C_2D	0.14	0.33	0.24
C_3D	0.14	0.34	0.19
Fluoranthene	5.88	6.81	3.01
Pyrene	3.96	5.19	2.95
Benzo(a)anthracene	1.54	1.81	0.35
Chrysene	1.74	2.21	0.29
Benzofluoranthene	2.99	3.37	0.20
Benzo(e)pyrene	1.00	0.27	0.02
Benzo(a)pyrene	0.75	1.04	0.06
Perylene	0.30	1.17	0.13
TOTAL PAH (Sum of Above Compounds)	26.5	35.3	15.9

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TABLE B.33 YEAR-2 RESULTS OF 12 REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR SEDIMENT HYDROCARBON DETERMINATIONS.

	Σ n-alkanes	UCM	Σ PAH
	Hydrocarbons (µg/g dry weight)[a]		
	0.11	<D.L.	0.005
	0.06	0.54	<D.L.
	0.33	<D.L.	<D.L.
	0.41	<D.L.	0.001
	0.07	<D.L.	0.013
	0.23	<D.L.	0.011
	0.06	<D.L.	0.001
	0.60	<D.L.	0.003
	0.08	<D.L.	0.003
	0.09	<D.L.	0.064
	0.10	<D.L.	0.007
	0.16	<D.L.	0.007
Mean	0.19	-	0.010
S.D.	0.17	-	0.018
CV	90	-	130
Detection Limits	0.01	0.01	0.001

[a] 50 g dry weight assumed for computation.

TABLE B.34 YEAR-2 RESULTS OF 8 REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR HYDROCARBON TISSUE DETERMINATION--GC AND GC/MS DATA.

	Σ n-alkanes	UCM	Σ PAH
	Hydrocarbon Concentration (μg/g wet weight)[a]		
	0.6	<D.L.	0.012
	0.9	<D.L.	0.002
	0.1	<D.L.	0.003
	0.1	<D.L.	0.001
	0.1	<D.L.	0.001
	0.9	<D.L.	0.002
	1.3	<D.L.	0.041
	0.1	<D.L.	0.006
Mean	0.5	-	0.008
S.D.	0.5	-	0.014
CV	100	-	175
Detection Limits	-	-	0.001

[a] 10 g wet weight assumed for computation.

TABLE B.35 YEAR-2 RESULTS OF SIX REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR HYDROCARBON TISSUE DETERMINATION--UV/F DATA.

	312 nm	355 nm	425 nm
	Hydrocarbons Concentrations (µg/g wet weight)[a] Calculated at 312, 355, and 425 nm		
	0.28	0.07	<D.L.
	0.09	0.03	<D.L.
	<D.L.	<D.L.	<D.L.
	<D.L.	<D.L.	<D.L.
	0.27	0.07	<D.L.
	0.55	0.02	<D.L.
Mean	0.20	0.04	<D.L.
S.D.	0.20	0.03	-
CV	100	75	-

[a] 10 g wet weight assumed for computation limit of detection 0.01 µg/g wet weight.

TABLE B.36 YEAR-3 RESULTS OF 12 REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR SEDIMENT HYDROCARBON DETERMINATIONS.

	Σ n-alkanes	UCM	Σ PAH
	Hydrocarbons(μg/g dry weight)[a]		
	0.11	<D.L.	0.001
	0.48	<D.L.	<D.L.
	0.44	<D.L.	0.002
	0.02	<D.L.	0.001
	<D.L.	<D.L.	<D.L.
	0.12	<D.L.	0.003
	0.06	<D.L.	<D.L.
	0.33	1.40	<D.L.
	0.08	<D.L.	<D.L.
	0.02	<D.L.	<D.L.
	0.01	<D.L.	<D.L.
	NA*	NA*	<D.L.
Mean	0.15	-	0.001
SD	0.18	-	0.001
CV(%)	119	-	100
Detection Limits	0.01	0.01	0.001

[a] 50g dry weight assumed for computation

NA= Not analyzed

*Procedural blank for sample batch analyzed for PAH only.

TABLE B.37 YEAR-3 RESULTS OF 5 REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR HYDROCARBON TISSUE DETERMINATION (GC-FID AND GC/MS).

	Σ n-alkanes	UCM	Σ PAH
	Hydrocarbon Concentration (μg/g wet weight)		
	0.2	<D.L.	0.003
	0.5	<D.L.	<D.L.
	0.6	<D.L.	<D.L.
	12.8*	41.9*	0.048*
	0.5	<D.L.	<D.L.
Mean	2.9	-	0.010
SD	5.5	-	0.021
CV(%)	190	-	212
Detection Limits	-	-	0.001

[a] 10g wet weight assumed for computation.

*Samples processed with procedural blank were reanalyzed and hydrocarbon contamination was determined to be isolated in the procedural blank.

TABLE B.38 YEAR-3 RESULTS OF FOUR REPLICATE ANALYSES OF PROCEDURAL BLANKS FOR HYDROCARBON TISSUE DETERMINATION -- UV/F DATA.

	312 nm	355 nm	425 nm
	Hydrocarbon Concentrations (ug/g wet weight)[a] Calculated at 312, 355, and 425 nm		
	0.24	0.15	0.17
	0.85	0.38	0.33
	<D.L.	0.21	0.10
	<D.L.	0.89	0.13
Mean	0.27	0.41	0.18
SD	0.40	0.34	0.10
CV %	149	82	57

[a] 10g wet weight assumed for computation.

Limit of detection 0.01 ug/g wet weight.

For mean determination, <D.L. = 0.

TABLE B.39 YEAR-1 RECOVERIES OF PAH CONTAINED IN NBS-SRM-1647 SUBJECTED TO HYDROCARBON ANALYTICAL SCHEME. DATA REPORTED RELATIVE TO O-TERPHENYL INTERNAL STANDARD.

	Percent Recovery Relative to O-Terphenyl							
	Replicate No.							
	1	2	3	4	5	x	±	sd
Naphthalene	30	24	11	30	22	23	±	8
Fluorene	64	62	141	69	58	79	±	35
Phenanthrene + Anthracene	131	131	92	132	116	120	±	17
Fluoranthene	46	48	60	53	43	50	±	7
Pyrene	48	49	62	55	43	51	±	7
Benzo(a)anthracene	38	45	122	48	37	58	±	36
Chrysene	43	46	112	51	38	58	±	31
Benzofluoranthene	95	119	81	113	97	101	±	15
Benzo(a)pyrene	30	38	86	30	30	43	±	24

TABLE B.40 YEAR-1 ANALYTICALLY DETERMINED UV/F TOTAL OIL CONCENTRATIONS IN SEDIMENTS FORTIFIED WITH VARYING CONCENTRATIONS OF PRUDHOE BAY CRUDE OIL.

Sample Replicate	Concentration Added (μg/g dry weight)	UV/F (312 nm) Concentration (μg/g dry weight)	UV/F (355 nm) Concentration (μg/g dry weight)
1	181.8	136.2	145.7
2	149.0	94.7	94.7
3	228.8	135.5	145.9
4	148.4	93.5	97.6

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TABLE B.41 YEAR-2 RESULTS OF 8 REPLICATE ANALYSES OF SPIKED METHOD BLANKS FOR SEDIMENT PROCEDURE--GC-FID DATA.

	n-C_{10}	n-C_{11}	n-C_{14}	n-C_{15}	n-C_{24}	n-C_{25}	n-C_{32}	n-C_{34}
	(µg Individual Hydrocarbon)							
	<D.L.	<D.L.	<D.L.	<D.L.	2.11	1.98	1.52	1.53
	2.91	4.74	0.98	0.51	1.64	1.43	1.24	1.32
	2.13	9.11	1.10	1.18	1.58	1.35	1.35	1.44
	0.05	0.13	0.17	0.20	1.75	1.56	1.59	1.67
	1.32	1.86	1.52	1.51	1.76	1.70	2.08	1.81
	0.93	1.42	1.11	1.20	1.46	1.36	1.16	1.34
	1.37	1.90	1.54	1.62	1.97	1.71	1.73	1.78
	0.93	20.46	1.45	0.95	2.38	2.21	1.68	1.78
Mean	1.21	4.95	0.98	0.90	1.83	1.66	1.54	1.58
S.D.	0.98	6.94	0.59	0.60	0.30	0.31	0.30	0.20
CV	81	140	60	66	17	18	19	13
Amount Spiked (µg)	2.20	2.20	2.20	1.95	2.05	2.05	2.05	2.05
Average Recovery (%)	55	225	45	46	89	81	75	77

TABLE B.42 YEAR-2 RESULTS OF 8 REPLICATE ANALYSES OF SPIKED METHOD BLANKS FOR SEDIMENT PROCEDURE--GC/MS DATA.

	(μg Individual Hydrocarbon)								Mean	SD	CV	Amount of Spike (μg)	Average Recovery (%)
Naphthalene	<D.L.	<D.L.	0.02	1.86	1.37	2.00	1.50	2.07	1.11	0.93	84	2.05	54
1-Methyl naphthalene	<D.L.	<D.L.	0.11	1.73	1.39	1.99	1.56	0.97	0.97	0.82	84	2.05	54
2,3-Dimethyl naphthalene	<D.L.	<D.L.	<D.L.	1.91	1.65	2.31	1.99	<D.L.	0.99	1.06	107	2.05	48
Phenanthrene	1.84	1.14	1.85	1.80	1.63	1.97	2.11	1.92	1.78	0.29	16	2.05	87
Dibenzothiophene	1.14	0.76	1.72	1.73	1.58	2.13	2.05	1.91	1.62	0.47	29	2.05	79
Pyrene	0.50	0.77	2.69	2.11	1.97	2.40	2.36	2.43	1.90	0.81	42	2.05	93
Chrysene	1.86	2.81	2.54	2.18	1.71	2.31	2.39	2.13	2.24	0.36	16	2.05	109
Benzo(a)pyrene	<D.L.	2.91	0.20	1.26	1.47	1.11	0.69	0.47	1.01	0.92	91	2.05	45
Perylene	0.30	1.76	1.85	1 36	1.32	1.78	1.81	0.64	1.35	0.59	43	2.05	66

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TABLE B.43 YEAR-2 RESULTS OF TRIPLICATE ANALYSES OF SEDIMENT SAMPLES SPIKED WITH PRUDHOE BAY CRUDE OIL[a].

	Replicate 1	Replicate 2	Replicate 3	Mean	S.D.	CV
	Concentration (µg of Hydrocarbon)					
Gravimetric Data						
Saturated Hydrocarbons	14,674	15,120	14,922	14,905	233	1.5
Aromatic Hydrocarbons	12,396	12,158	12,248	12,251	94	<0.1
Total Hydrocarbons	27,020	27,278	27,170	27,156	129	<0.1
Chromatographic Data						
Resolved Hydrocarbons[b]	3,207	3,201	3,106	3,171	56.6	1.8
Unresolved Complex Mixture[b]	371	790	706	622	222	35.6
Total Hydrocarbons[b]	3,579	3,991	3,812	3,791	206	5.4
Total Aromatic Hydrocarbons[c]	800	825	680	768	78	10.1

[a] Pre-extracted sediment was rehydrated, spiked with 50 mg Prudhoe Bay Crude Oil (36.3 percent residium; Coleman, 1978), and processed according to sediment procedure used in the BSMP study.

[b] Saturated hydrocarbons from n-C_{10} to n-C_{34} analyzed by GC-FID.

[c] Suite of aromatic analytes analyzed by GC/MS.

TABLE B.44 YEAR-2 RESULTS OF TRIPLICATE ANALYSES OF TISSUE SAMPLES SPIKED WITH PRUDHOE BAY CRUDE OIL--UV/F DATA[a].

	Replicate 1	Replicate 2	Replicate 3	Mean	S.D.	CV
Wavelength (nm)	(Total Oil in mg)					
312	48.6	42.1	46.9	45.9	3.4	7
355	42.2	38.4	39.5	40.0	2.0	5
425	41.9	38.2	38.6	39.6	2.0	5

[a] Commercial clams (Geisha brand) were homogenized and spiked with 50 mg Prudhoe Bay Crude Oil, and processed for UV/F analysis according to tissue procedure.

TABLE B.45 YEAR-2 RESULTS OF TRIPLICATE ANALYSES OF TISSUE SAMPLES FOR SELECTED HYDROCARBON PARAMETERS (CONCENTRATION µg/g WET WEIGHT).

	Replicate 1	Replicate 2	Replicate 3	Mean	S.D.	CV
Gravimetric Data						
Saturated Hydrocarbons	3.50	4.80	6.4	4.9	1.5	30
Aromatic Hydrocarbons	30.6	123.6	88.2	80.9	46.9	58
Total Hydrocarbons	34.1	128.4	94.7	85.7	48.0	56
Chromatographic Data						
Resolved Hydrocarbons[a]	1.6	3.3	1.6	2.2	1.0	44
Unresolved Complex Mixture[a]	<D.L.	<D.L.	<D.L.	<D.L.	-	-
Total Hydrocarbons[a]	1.6	3.3	1.6	2.2	1.0	44
Total Aromatic Hydrocarbons[b]	7.2	20.0	4.1	10.4	8.4	81
UV/Fluorescence						
312 nm	9.8	9.3	11.0	10.1	0.9	9
355 nm	4.7	4.4	4.9	4.7	0.2	5
425 nm	2.7	2.4	2.6	2.6	0.1	5

[a] Saturated hydrocarbons analyzed by GC-FID.

[b] Aromatic hydrocarbons analyzed by GC-MS.

TABLE B.46 YEAR-3 GC-FID RESULTS OF 11 REPLICATE ANALYSES OF SPIKED METHOD BLANKS FOR SEDIMENT PROCEDURE.

												Mean	SD	CV	Amount of Spike (ug)	Average Recovery (%)
	(µg Individual Hydrocarbon)															
n-C_{10}	6.11	3.70	5.18	4.50	1.50	3.69	4.61	4.57	4.89	4.83	4.95	4.41	1.17	27	4.4	100
n-C_{14}	9.17	7.00	6.27	5.18	5.84	5.14	0.48	4.99	5.43	4.99	5.32	5.44	2.06	38	4.4	133
n-C_{15}	8.44	5.85	5.62	4.55	6.72	4.69	4.67	4.78	5.26	4.81	5.12	5.50	1.17	21	3.9	134
n-C_{24}	19.83	5.02	8.55	7.04	11.43	8.30	6.40	6.18	6.27	6.30	5.71	8.28	4.22	51	4.1	202
n-C_{25}	18.69	5.02	8.47	7.08	10.90	10.53	6.14	5.98	6.17	6.05	5.68	8.25	3.98	48	4.1	201
n-C_{32}	8.46	5.13	7.99	4.63	7.23	7.33	4.73	5.69	6.78	6.47	4.82	6.30	1.37	22	4.1	154
n-C_{34}	8.01	5.08	8.68	4.39	7.00	7.88	4.85	6.14	7.42	7.17	5.03	6.51	1.48	23	4.1	159

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TABLE B.47 YEAR-3 GC/MS RESULTS OF 10 REPLICATE ANALYSES OF SPIKED METHOD BLANKS FOR SEDIMENT PROCEDURE.

											Mean	SD	CV	Amount of Spike (µg)	Average Recovery (%)
	(µg Individual Hydrocarbon)														
Naphthalene	7.59	3.99	0.02	3.36	3.04	3.33	3.85	3.44	3.94	2.49	3.50	1.85	53	4.1	85
1-Methyl naphthalene	7.72	3.66	0.01	3.23	3.14	3.19	3.71	3.44	3.75	2.42	3.43	1.87	55	4.1	84
2,3-Dimethyl naphthalene	8.37	4.24	0.09	4.09	3.89	3.74	4.42	4.13	4.28	1.54	3.88	2.13	55	4.1	95
Phenanthrene	6.90	4.19	3.40	3.77	4.08	3.86	4.21	3.81	4.33	3.40	4.20	1.00	24	4.1	102
Dibenzothiophene	6.97	4.21	3.03	3.75	4.04	3.83	4.13	3.73	4.35	3.41	4.14	1.07	26	4.1	101
Pyrene	7.67	5.02	5.12	4.57	4.59	4.70	4.89	4.70	5.18	4.45	5.09	0.94	18	4.1	124
Chrysene	3.12	5.19	4.75	4.35	4.58	4.79	4.60	4.88	4.68	4.30	4.52	0.56	12	4.1	110
Benzo(a)pyrene	2.05	5.01	3.82	3.35	4.25	5.33	4.04	4.33	3.96	3.56	3.97	0.91	23	4.1	97
Perylene	2.12	6.18	5.17	5.24	7.18	7.57	6.52	7.20	5.46	3.26	5.59	1.77	32	4.1	136

TABLE B.48 YEAR-1 QUALITY CONTROL DATA FOR TOTAL ORGANIC CARBON ANALYSES.

STATION 7E-1005	TOC (mg/g)
Split A	18.2
Split B	15.9
Split C	18.9
STATION 7G-1006	
Split A	16.9
Split B	17.8
Split C	28.2

TABLE B.49 SUMMARY OF YEAR-1 REPLICATE GRAIN SIZE ANALYSIS

ø	STATION 4A-1003		STATION 5(1)-1001		STATION 5B-1003	
	A	B	A	B	A	B
-1	38.79	58.86	0.33	0.06	0	0
0	4.91	3.60	0.75	0.53	0.04	0
1	4.43	3.46	2.19	2.58	0.46	0.47
2	10.72	7.37	11.14	11.89	16.45	17.42
3	8.82	5.94	60.97	60.59	77.28	76.19
4	3.13	2.12	12.16	10.53	3.37	3.42
5	4.21	2.09	2.08	3.00	1.91	2.00
6	3.98	2.65	2.61	2.33	0	0
7	3.98	2.76	1.47	2.04	0	0
8	3.48	2.38	1.49	1.39	0	0
9	4.01	2.06	1.13	0.88	0.48	0.52
10	1.55	1.39	0.90	1.31	0	0
>10	7.99	5.32	2.79	2.88	0	0

ø	STATION 6F-1004		STATION 5E-1003		STATION 2F-1007	
	A	B	A	B	A	B
-1	0.91	0.47	4.92	2.52	0	0
0	0.47	0.08	2.20	1.84	0	0.02
1	0.68	0.28	11.11	11.42	0.07	0.07
2	0.48	0.50	15.49	17.76	1.53	1.46
3	1.38	1.25	34.66	37.11	42.87	41.73
4	14.36	11.77	8.36	8.11	37.42	35.13
5	7.58	12.24	1.54	0.56	3.63	4.80
6	11.67	9.36	2.22	2.95	4.16	4.38
7	13.53	13.70	3.20	2.64	2.99	3.80
8	10.93	11.04	3.70	3.71	1.71	2.42
9	8.73	9.90	3.17	3.37	1.83	1.59
10	6.87	8.22	2.70	1.64	0.65	1.03
>10	22.42	21.18	6.73	6.36	3.11	3.58

ø	STATION 5F-1003		STATION 7A-1001		STATION 7E-1001	
	A	B	A	B	A	B
-1	4.92	2.52	0	0	2.02	0
0	2.20	1.84	0.09	0.10	0.38	0.38
1	11.11	11.42	0.22	0.19	0.61	0.71
2	15.49	17.76	0.26	0.38	1.34	1.60
3	34.66	37.11	1.82	1.90	4.06	3.92
4	8.36	8.11	26.19	27.21	28.30	25.98
5	1.54	0.56	39.88	37.94	25.97	30.88
6	2.22	2.95	13.80	13.16	12.66	11.86
7	3.20	2.64	4.68	5.18	6.72	6.84
8	3.70	3.71	3.65	3.95	4.03	4.96
9	3.17	3.37	2.99	2.62	2.62	2.74
10	2.70	1.64	1.26	1.81	1.41	1.94
>10	6.73	6.36	5.16	5.57	9.88	8.19

TABLE B.50 SUMMARY OF YEAR-2 REPLICATE GRAIN SIZE ANALYSES

Phi	STATION 1D		STATION 2B		STATION 2E		STATION 3B	
	A	B	A	B	A	B	A	B
-1	0	0	0	0	0	0	1.27	0.02
0	0	0	0.01	0.02	0	0.01	0.07	0.05
1	0.01	0.01	0.18	0.20	0.05	0.02	0.20	0.17
2	0.24	0.17	0.49	0.45	0.26	0.22	0.59	0.54
3	52.84	52.05	23.56	22.41	5.05	4.80	1.89	1.68
4	35.89	36.39	11.93	11.14	4.54	4.32	22.09	21.45
5	5.29	5.45	3.91	4.17	3.13	2.95	23.68	27.39
6	2.06	2.27	8.17	5.46	13.94	14.40	17.39	16.72
7	1.14	1.19	11.45	11.73	18.45	19.05	9.56	9.39
8	0.76	0.78	9.83	12.91	16.68	16.10	6.37	6.27
9	0.44	0.58	5.92	8.10	10.49	12.45	3.39	4.35
10	0.02	0.05	8.95	6.99	7.16	7.01	2.22	1.72
>10	1.32	1.08	15.59	16.42	20.25	18.66	11.28	10.26

Phi	STATION 5A		STATION 5E		STATION 5K		STATION 5(0)	
	A	B	A	B	A	B	A	B
-1	2.62	4.10	0.17	0.92	4.13	0	0.03	0
0	0.37	0.18	0.30	0.03	0.63	1.13	0.05	0.07
1	0.79	0.65	0.57	0.38	1.88	2.39	0.29	0.30
2	8.88	8.20	6.19	6.42	5.41	7.31	24.53	24.50
3	11.85	11.83	32.54	40.27	9.13	12.01	66.12	65.71
4	32.15	31.52	7.42	7.68	9.63	10.94	5.25	5.37
5	14.99	15.22	0.52	2.39	7.68	9.78	3.13	3.47
6	10.12	10.07	4.75	5.36	20.28	19.88	0	0
7	5.87	5.88	8.39	7.23	20.49	18.51	0	0
8	3.78	3.72	7.83	8.46	6.83	7.21	0	0
9	1.53	2.19	8.95	4.05	1.45	1.27	0.60	0.57
10	2.56	2.19	6.06	5.72	0.83	0.29	0	0
>10	4.49	4.25	16.31	11.07	11.64	9.28	0	0

Phi	STATION 6C		STATION 7A		STATION 7D	
	A	B	A	B	A	B
-1	0.06	0.19	0	0	0	0
0	0.04	0.11	0.03	0	0.02	0
1	0.17	0.15	0.01	0	0.01	0.03
2	0.72	0.74	0.12	0.08	0.10	0.10
3	7.84	7.80	0.46	0.50	7.78	8.06
4	30.52	31.69	27.25	26.12	45.74	45.06
5	5.47	5.70	41.13	43.02	7.17	8.26
6	8.65	7.56	14.57	14.83	5.72	6.09
7	8.76	9.04	6.13	5.63	6.96	6.56
8	8.86	8.62	2.81	2.97	6.86	6.92
9	6.30	5.71	0.88	0.83	5.46	5.80
10	6.66	6.19	0.96	1.00	3.40	3.28
>10	15.95	16.50	5.66	5.01	10.28	9.82

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TABLE B.51 SUMMARY OF YEAR-3 REPLICATE GRAIN SIZE ANALYSES

	STATION 1A		STATION 1C		STATION 2B		STATION 2C		STATION 2D	
PHI	A	B	A	B	A	B	A	B	A	B
-1	0	0	0	0	0	0.10	1.08	0.75	6.77	12.4
0	0.05	0	0.42	0.05	0.27	0.21	0.86	1.24	4.98	5.53
1	0.06	0.03	3.24	0.48	1.79	1.09	7.07	9.03	3.54	4.66
2	0.14	0.08	5.58	2.77	10.9	10.7	11.6	12.8	8.59	7.51
3	0.36	0.28	5.56	4.62	66.5	66.6	8.08	7.97	43.2	35.5
4	38.1	35.6	11.8	12.5	16.0	16.1	10.7	10.6	15.9	14.3
5	16.8	18.0	7.05	9.63	0.81	0.42	7.93	9.29	1.18	1.64
6	7.42	8.47	8.96	9.31	0.08	0.22	8.91	7.02	2.97	3.99
7	7.69	8.03	9.28	12.9	0.12	0.74	10.2	9.87	4.43	4.41
8	7.73	6.03	9.55	9.11	0.33	0.02	6.13	5.82	4.28	4.26
9	6.05	5.43	6.29	9.71	0.45	0.33	8.99	7.44	3.19	3.88
10	0.57	0.56	6.38	7.15	1.84	1.05	5.54	4.65	1.07	1.53
>10	14.9	15.8	25.0	21.8	0.99	0.44	13.0	12.6	1.75	1.13

	STATION 3A		STATION 4A		STATION 5(S)		STATION 6B	
PHI	A	B	A	B	A	B	A	B
-1	0	0.19	50.9	47.2	19.9	30.1	0	0
0	0.05	0.08	2.68	3.81	5.41	5.83	0.01	0.01
1	0.12	0.10	1.77	2.31	5.47	4.86	0.01	0.02
2	0.22	0.21	13.5	17.2	20.3	18.9	0.07	0.06
3	2.34	2.52	13.5	17.4	19.6	16.6	8.96	8.83
4	53.6	53.1	2.08	2.60	11.2	9.32	14.5	15.7
5	11.3	12.0	2.31	2.09	4.28	2.97	12.9	9.51
6	8.12	7.76	0.58	0.88	2.54	1.96	9.65	9.78
7	5.52	5.90	0.75	1.02	1.70	0.68	18.3	18.4
8	2.94	3.56	0.77	0.58	1.97	2.58	16.3	16.6
9	3.36	3.08	0.69	1.51	1.33	0.48	7.74	8.15
10	4.07	4.28	0.28	0.13	2.05	2.23	4.95	4.23
>10	7.60	7.24	2.16	2.36	1.73	3.09	16.3	16.7

	STATION 6C		STATION 6F		STATION 7B		STATION 8B	
PHI	A	B	A	B	A	B	A	B
-1	0.02	0	0	0	0	0	0	0
0	0.07	0.08	0	0	0	0.02	0.03	0.01
1	0.07	0.06	0.01	0.01	0.03	0.03	0.15	0.17
2	0.27	0.27	0.12	0.08	0.09	0.11	10.6	10.5
3	9.87	10.6	0.95	0.91	6.43	6.45	38.1	38.5
4	56.1	56.5	78.6	79.0	73.3	73.7	26.1	25.5
5	2.72	2.17	8.58	7.76	2.63	2.15	10.2	11.2
6	2.59	3.62	1.26	1.28	1.41	1.66	3.27	3.61
7	3.96	3.46	1.31	1.11	1.88	1.93	2.24	2.95
8	5.39	5.51	1.23	1.72	1.50	1.95	2.35	1.85
9	4.70	4.27	1.21	1.89	1.92	1.88	1.38	2.98
10	3.12	2.41	3.20	2.65	8.74	7.84	3.27	2.91
>10	11.1	11.0	3.68	3.73	2.10	2.06	2.28	2.25

APPENDIX C

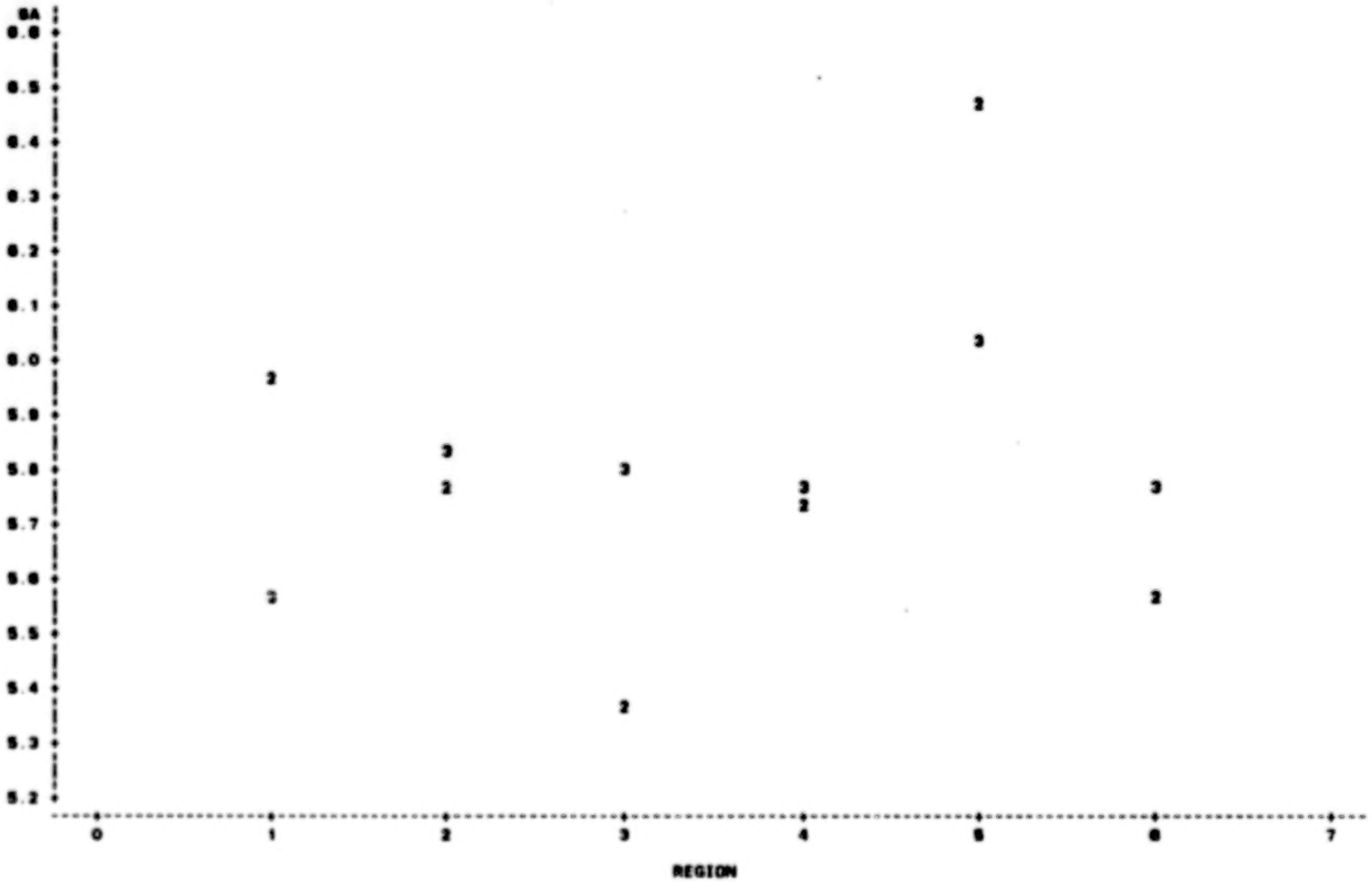
RESULTS OF STATISTICAL ANALYSES

SECTION 1

MEAN LOG CONCENTRATIONS OF METALS IN FINE SEDIMENT BY STUDY AREA REGION

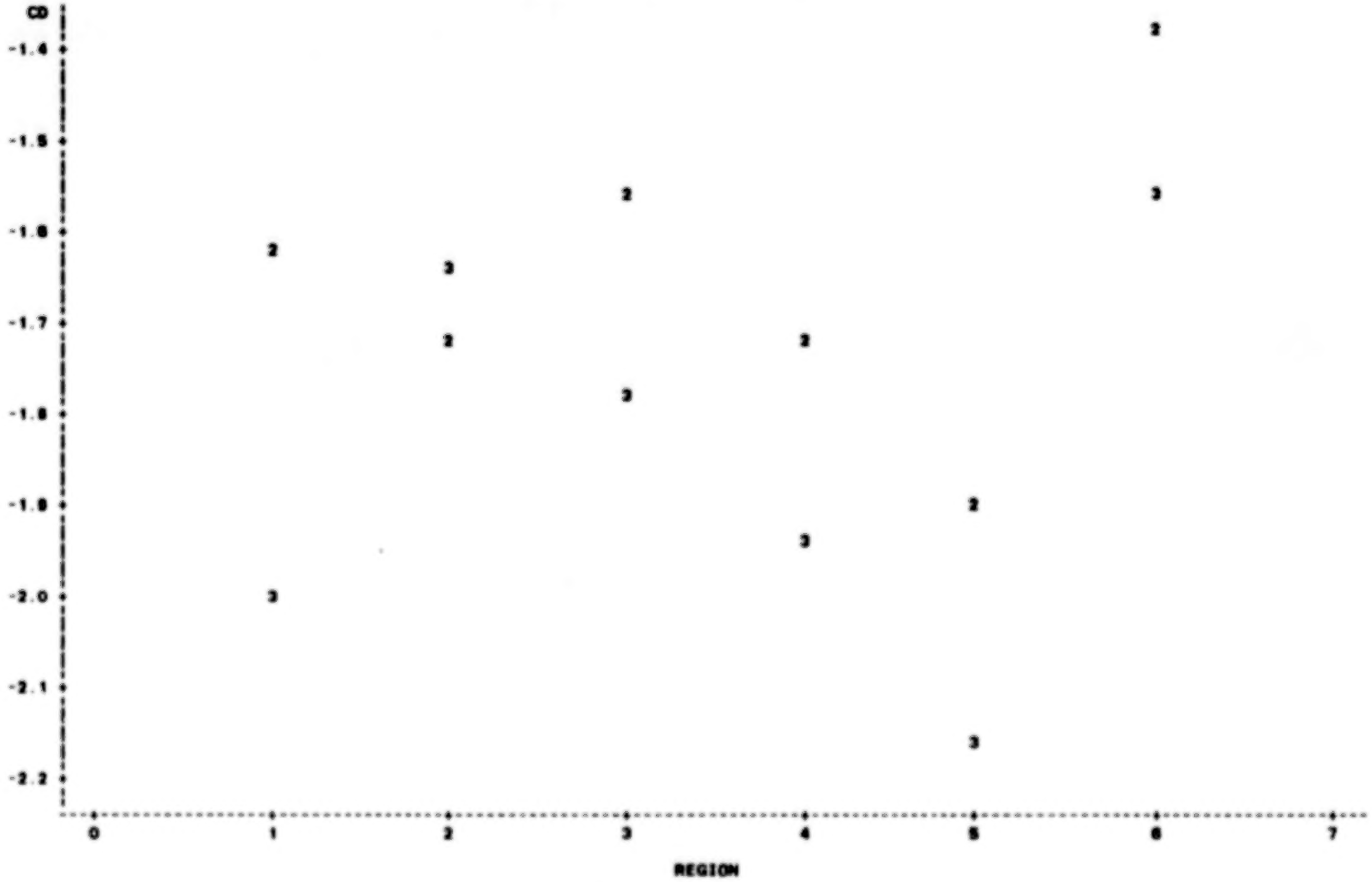
METALS FROM FINE SEDIMENTS SAMPLED AT REGIONS 1-6 (YEARS 2,3)
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF BA*REGION   SYMBOL IS VALUE OF YEAR



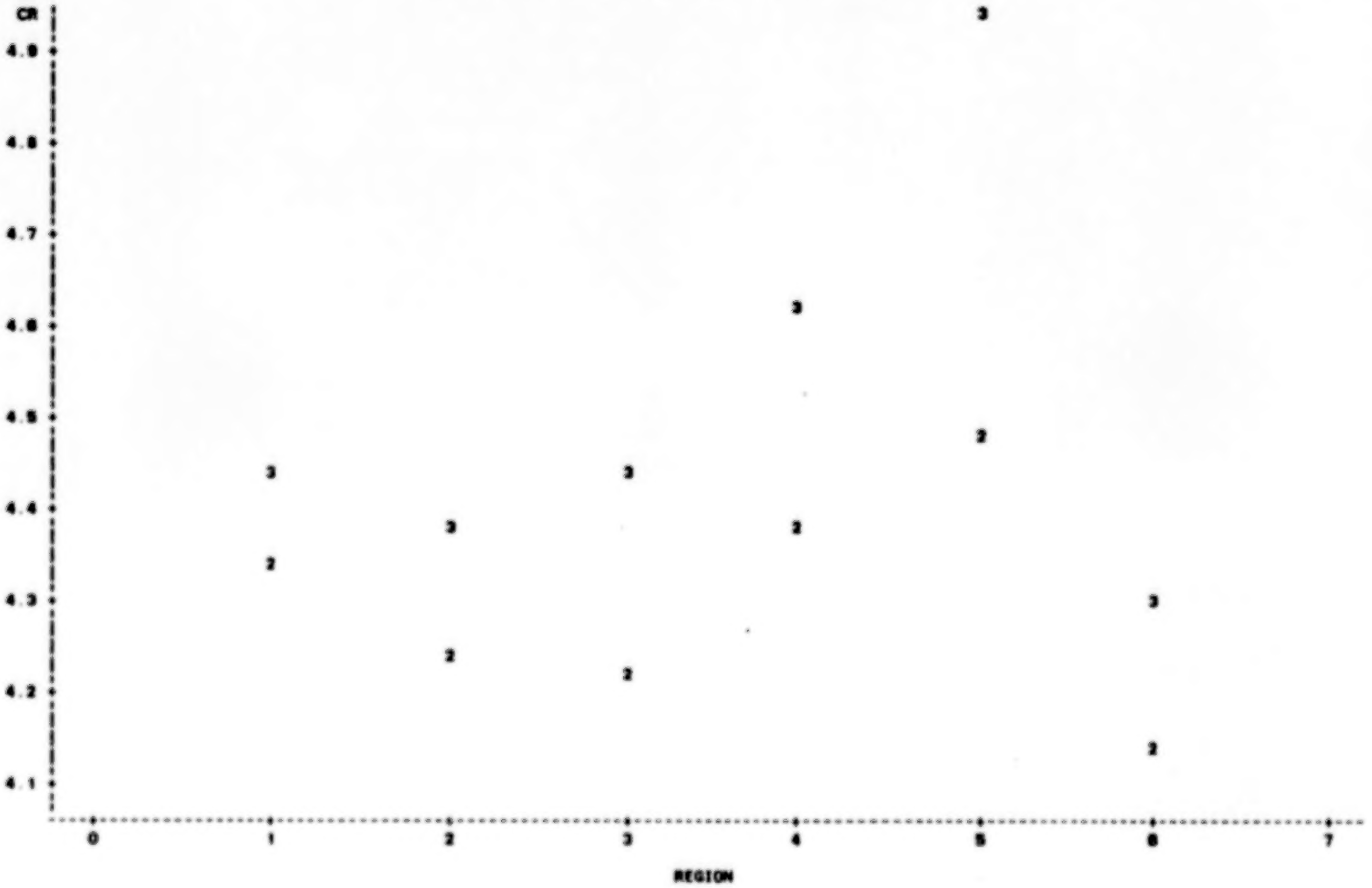
METALS FROM FINE SEDIMENTS SAMPLED AT REGIONS 1-6 (YEARS 2,3)
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF CD*REGION SYMBOL IS VALUE OF YEAR



METALS FROM FINE SEDIMENTS SAMPLED AT REGIONS 1-6 (YEARS 2,3)
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF CR*REGION SYMBOL IS VALUE OF YEAR



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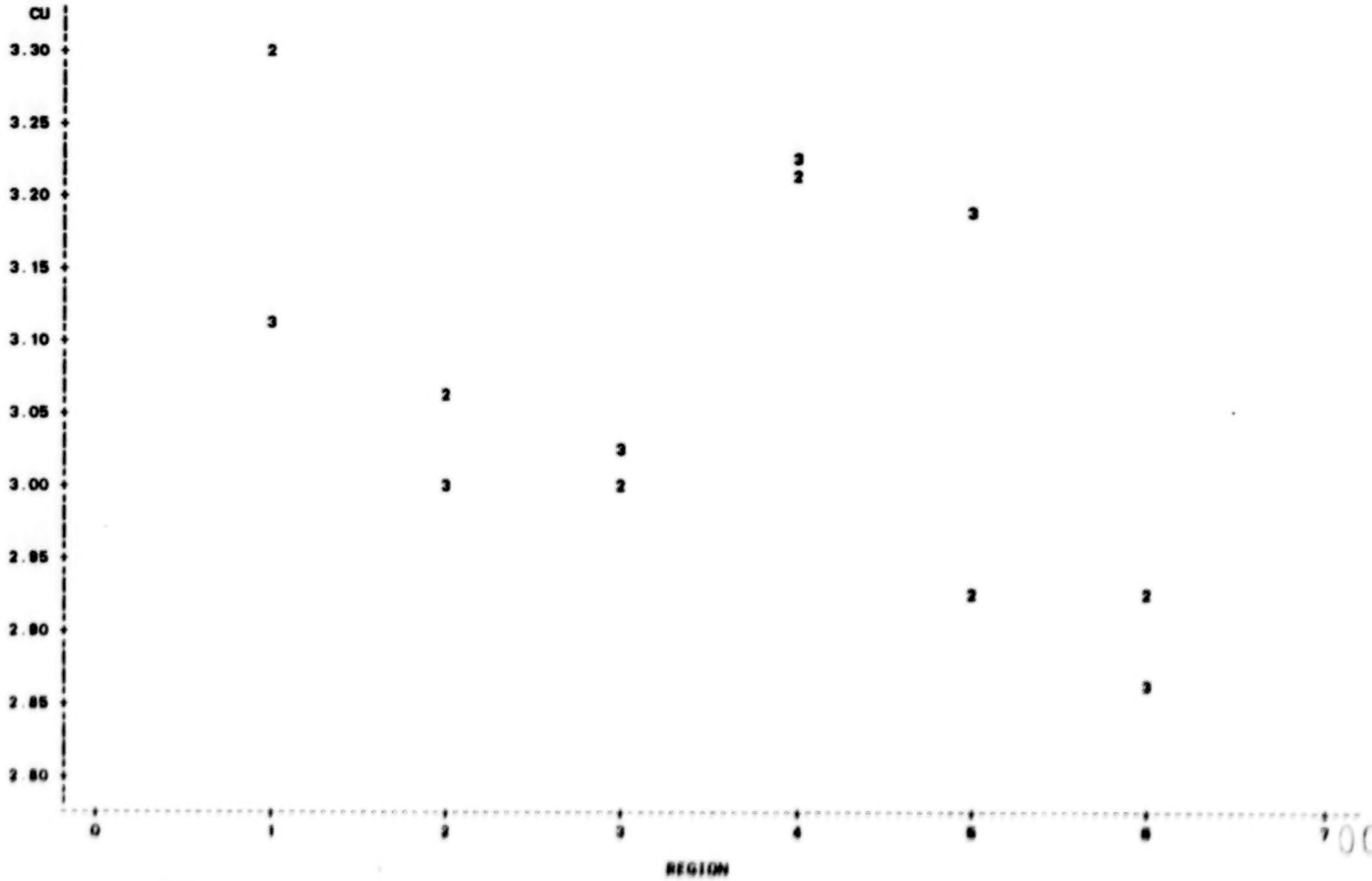
METALS FROM FINE SEDIMENTS SAMPLED AT REGIONS 1-6 (YEARS 2,3)
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF CU*REGION   SYMBOL IS VALUE OF YEAR



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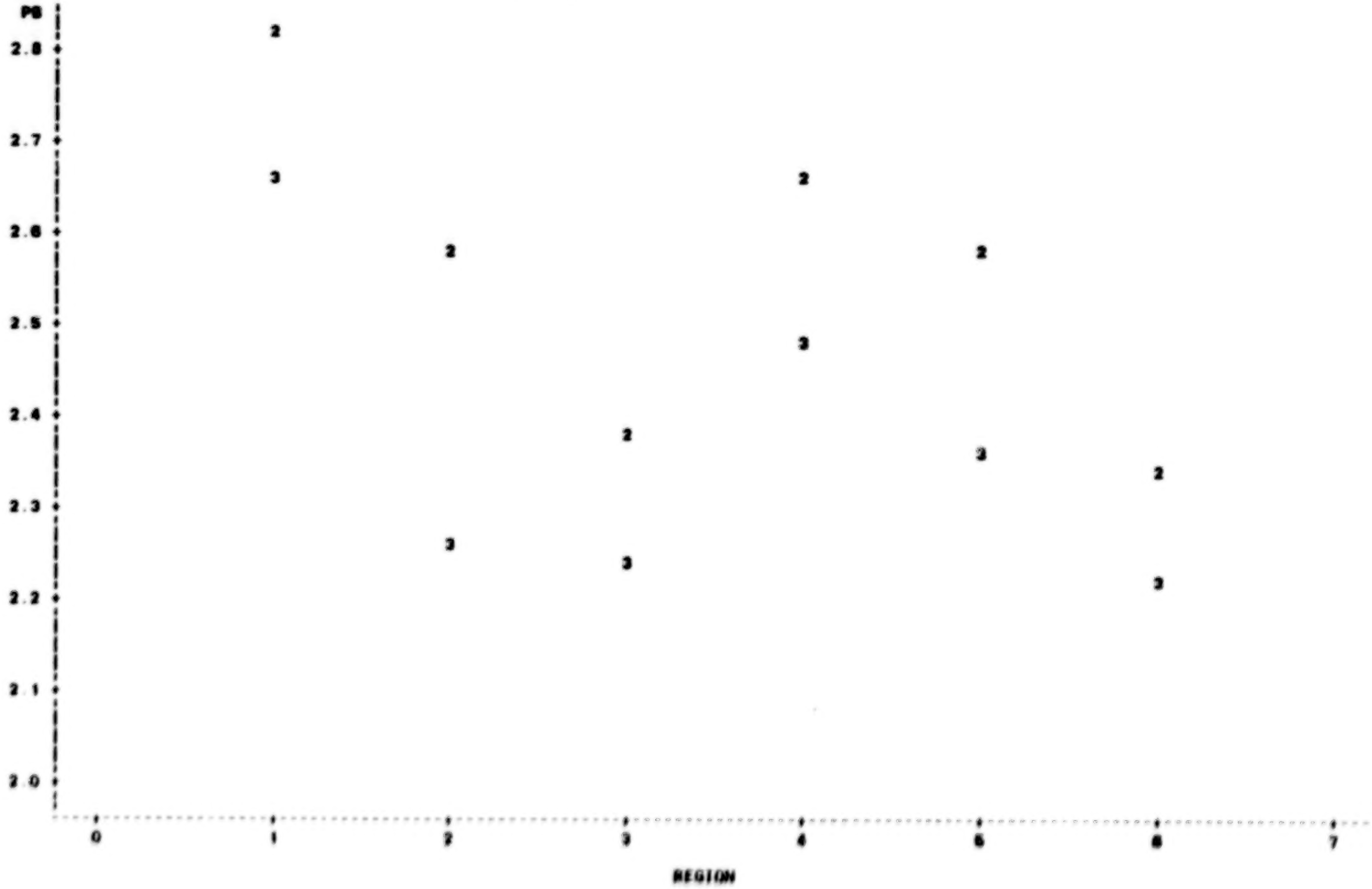
METALS FROM FINE SEDIMENTS SAMPLED AT REGIONS 1-6 (YEARS 2,3)
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF PB*REGION SYMBOL IS VALUE OF YEAR



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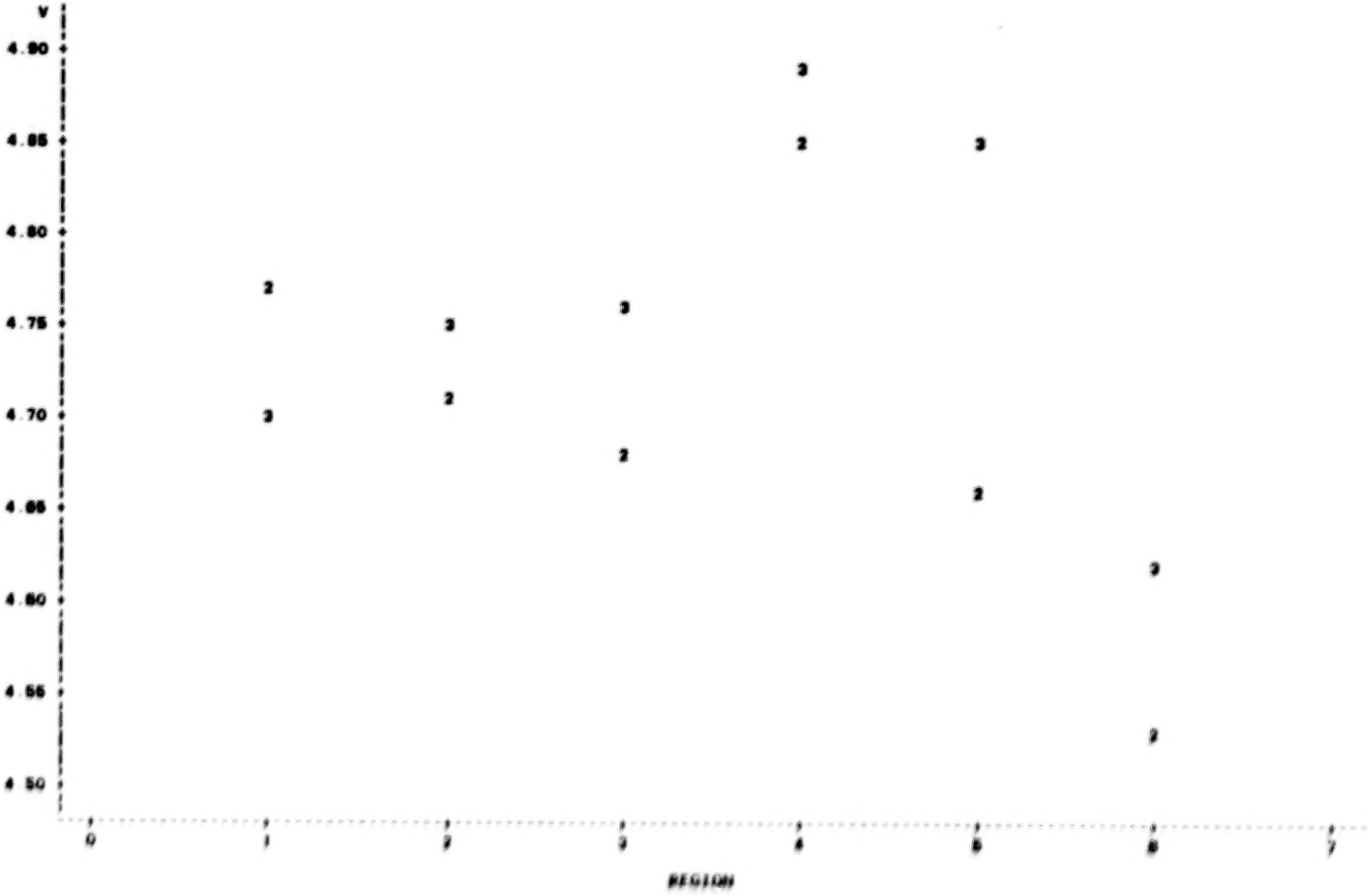
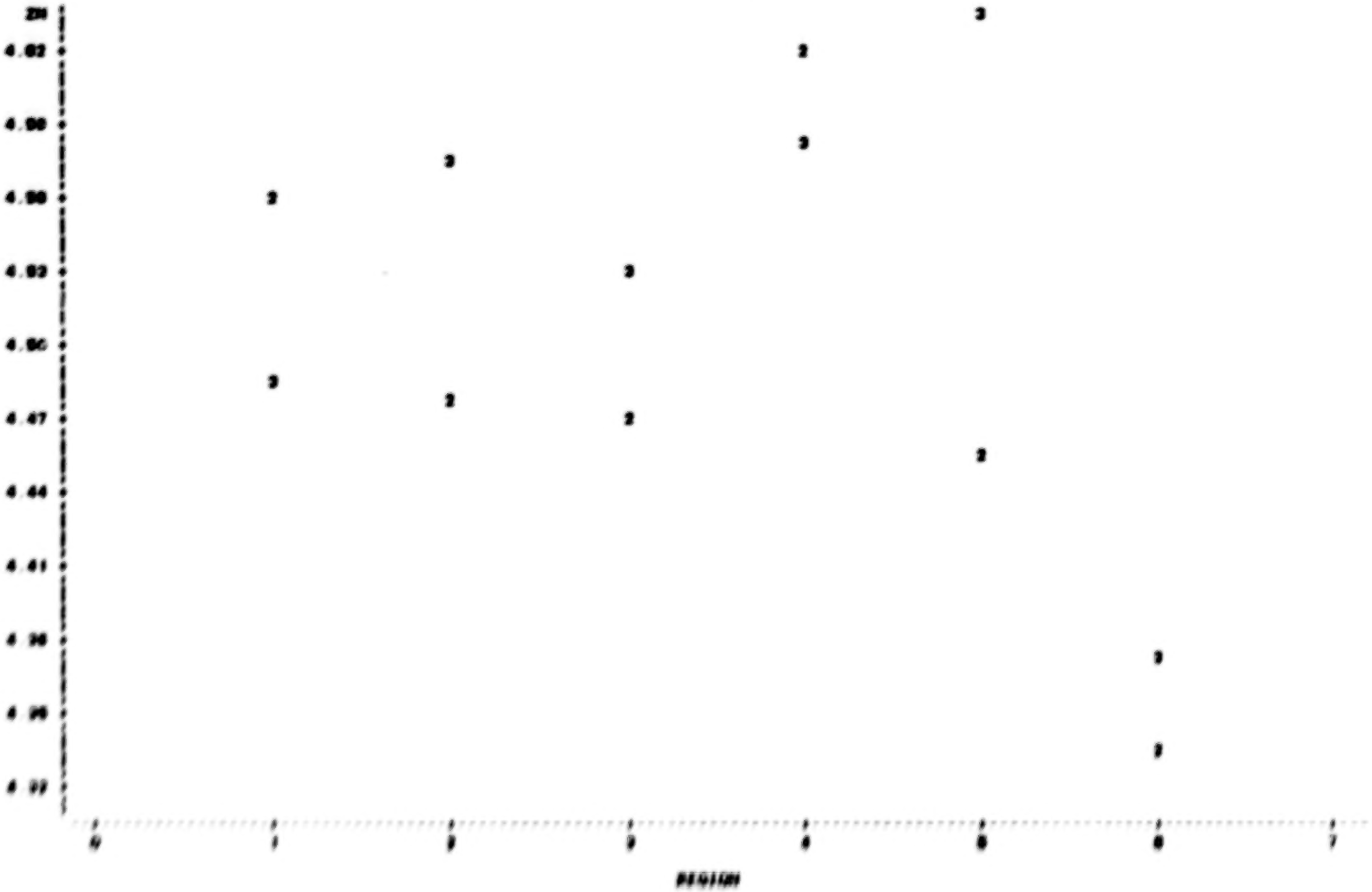
METALS FROM FINE SEDIMENTS SAMPLED AT REGIONS 1-6 (YEARS 2,3)
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF V*REGION SYMBOL IS VALUE OF YEAR



METALS FROM FINE SEDIMENTS SAMPLED AT REGIONS 1-6 (YEARS 2,3)
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF ZN*REGION   SYMBOL IS VALUE OF YEAR



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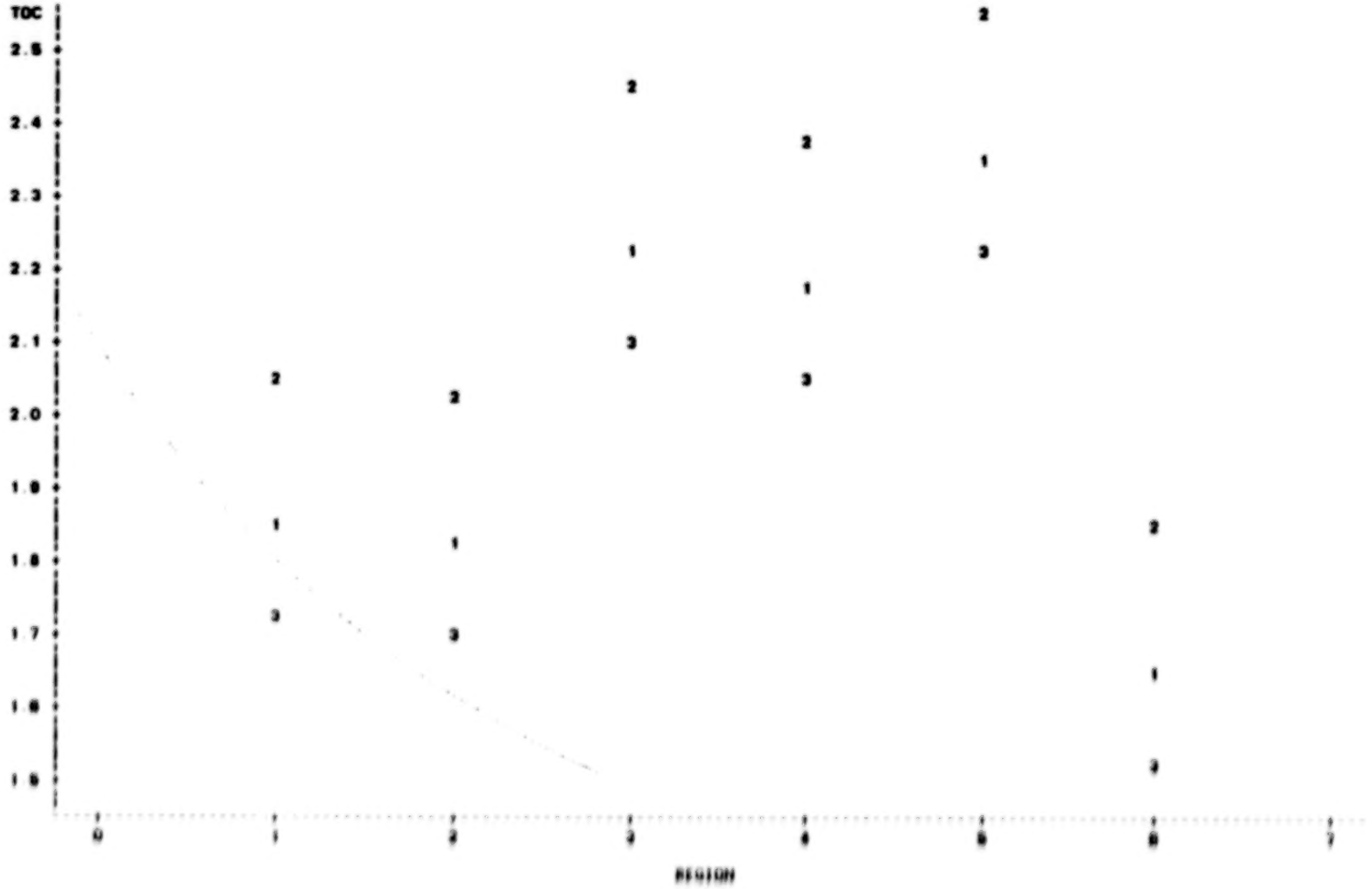
HYDROCARBONS AND AUX VARS FROM BULK SEDIMENTS SAMPLED AT REGIONS 1-6
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF TOC*REGION SYMBOL IS VALUE OF YEAR



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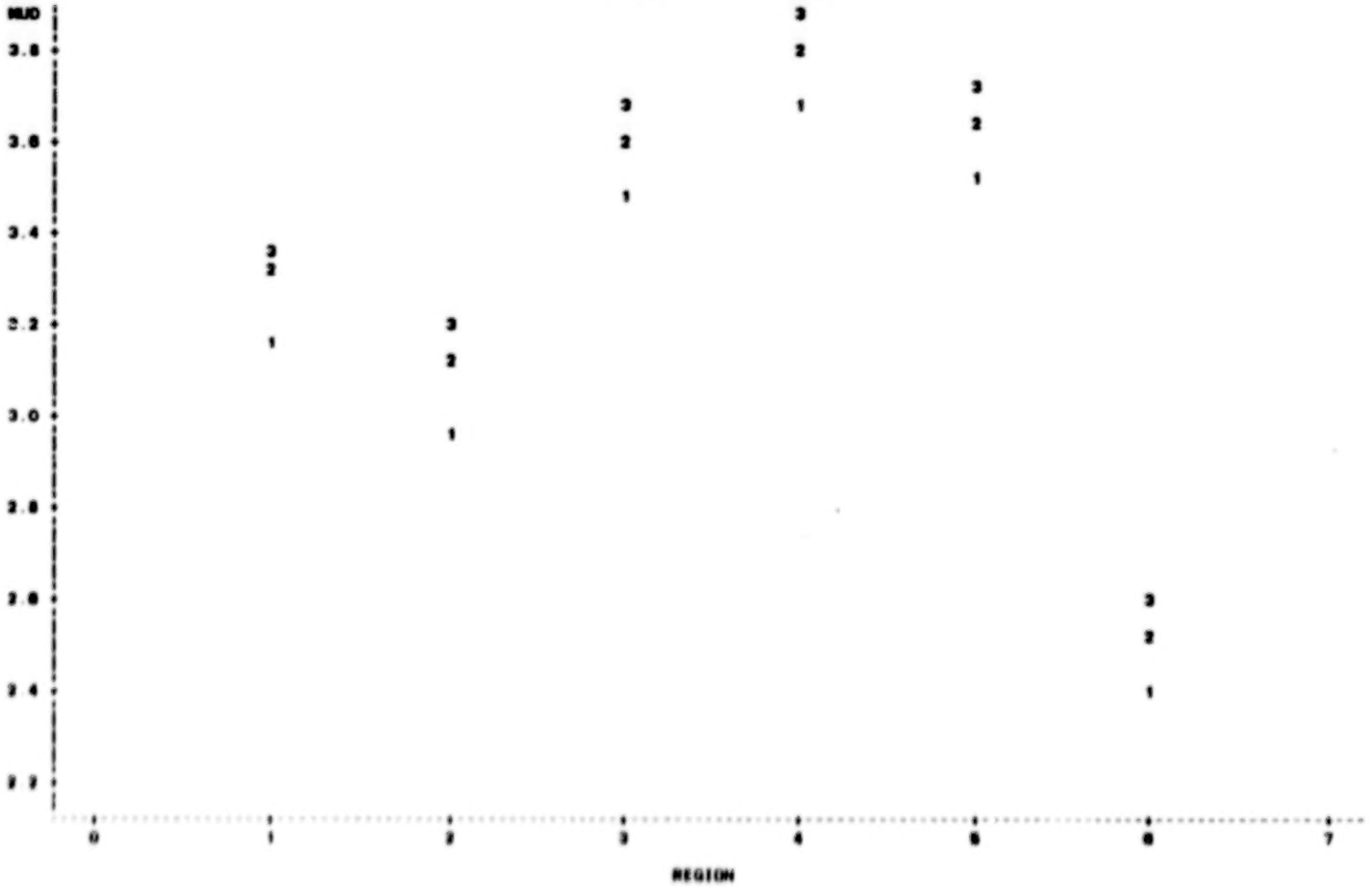
HYDROCARBONS AND AUX VARS FROM BULK SEDIMENTS SAMPLED AT REGIONS 1-6
PLOT OF MEAN LOG CONCENTRATIONS FOR EACH SAMPLING YEAR
REGION NUMBER ON X-AXIS:
1=CAMDEN BAY AREA 2=FOGGY ISLAND BAY AREA 3=KUPARUK RIVER BAY AREA
4=EAST HARRISON BAY AREA 5=WEST HARRISON BAY AREA 6=ENDICOTT FIELD

PLOT OF MUD*REGION   SYMBOL IS VALUE OF YEAR



SECTION 2

GEOMETRIC MEAN CONCENTRATIONS
AND 95 PERCENT CONFIDENCE INTERVALS
FOR EACH SET OF ANALYTES ARRANGED BY STATION

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              GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                          AT EACH MARINE STATION IN THE BEAUFORT SEA

                                  FINE SEDIMENT SAMPLE DATA

------------------------------------------------------- STATION=1A --------------------------------------------------------

 STATION     TYPE OF           # NONMISSING    GEOMETRIC    % STD ERR OF    LOWER 95% CONF.    UPPER 95% CONF.
             CONCENTRATION        VALUES          MEAN      GEOM. MEAN      LIMIT FOR G.M.     LIMIT FOR G.M.

   1A          N                    1           0.15
   1A          F                    1           0.055
   1A          P                    1           0.13
   1A          D                    1           0.024
   1A          PAH                  1           0.23
   1A          PHYT                 1           0.053
   1A          PRIS                 1           0.081
   1A          LALK                 1           1.13
   1A          TALK                 1           14.58
   1A          TOT                  1           28.21
   1A          BA                   2           341             1.22            232                501
   1A          CD                   2           0.19            1.13            0.15               0.25
   1A          CR                   2           89              1.10            74                 107
   1A          CU                   2           29.7            1.01            28.9               30.5
   1A          PB                   2           16.4            1.20            11.4               23.6
   1A          V                    2           128             1.04            118                139
   1A          ZN                   2           125             1.26            79                 197
   1A          TOC                  2           9.64            1.20            6.73               13.82
   1A          MUD                  2           64.1            1.06            57.0               72.1
   1A          FFPI                 1           81
   1A          ISO/ALK              1           0.414
   1A          LALK/TAL             1           0.078
   1A          PRIS/PHY             1           1.5
   1A          N/P                  1           1.1
   1A          P/D                  1           5.6
   1A          PAH/TOC              1           0.020
   1A          TOT/TOC              1           2.3
   1A          BA/CR                2           3.8             1.33            2.2                6.7
   1A          BA/V                 2           2.7             1.27            1.7                4.3
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               GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                         AT EACH MARINE STATION IN THE BEAUFORT SEA

                                  FINE SEDIMENT SAMPLE DATA

----------------------------------------------- STATION=1B -----------------------------------------------

STATION   TYPE OF          # NONMISSING   GEOMETRIC   % STD ERR OF   LOWER 95% CONF.   UPPER 95% CONF.
          CONCENTRATION      VALUES         MEAN      GEOM. MEAN     LIMIT FOR G.M.    LIMIT FOR G.M.

  1B        N                  0
  1B        F                  0
  1B        P                  0
  1B        D                  0
  1B        PAH                0
  1B        PHYT               0
  1B        PRIS               0
  1B        LALK               0
  1B        TALK               0
  1B        TOT                0
  1B        BA                 2            364           1.59             147               903
  1B        CD                 2            0.13          1.00             0.11              0.15
  1B        CR                 2            84            1.08             74                95
  1B        CU                 2            26.3          1.06             23.4              29.5
  1B        PB                 2            16.7          1.03             15.8              17.7
  1B        V                  2            132           1.04             122               141
  1B        ZN                 2            91            1.04             84                98
  1B        TOC                2            7.23          1.12             5.81              8.99
  1B        MUD                2            13.1          1.08             11.2              15.4
  1B        FFPI               0
  1B        ISO/ALK            0
  1B        LALK/TAL           0
  1B        PRIS/PHY           0
  1B        N/P                0
  1B        P/D                0
  1B        PAH/TOC            0
  1B        TOT/TOC            0
  1B        BA/CR              2            4.3           1.89             1.5               12.1
  1B        BA/V               2            2.8           1.85             1.0               7.4
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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=1C --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
1C	N	0				
1C	F	0				
1C	P	0				
1C	D	0				
1C	PAH	0				
1C	PHYT	0				
1C	PRIS	0				
1C	LALK	0				
1C	TALK	0				
1C	TOT	0				
1C	BA	2	395	1.27	249	628
1C	CD	2	0.11	1.49	0.05	0.23
1C	CR	2	85	1.02	82	89
1C	CU	2	24.7	1.04	22.8	26.7
1C	PB	2	18.6	1.01	18.2	18.9
1C	V	2	142	1.01	140	144
1C	ZN	2	97	1.08	83	114
1C	TOC	2	8.94	1.07	7.82	10.23
1C	MUD	2	69.9	1.00	69.9	70.0
1C	FFPI	0				
1C	ISO/ALK	0				
1C	LALK/TAL	0				
1C	PRIS/PHY	0				
1C	N/P	0				
1C	P/D	0				
1C	PAH/TOC	0				
1C	TOT/TOC	0				
1C	BA/CR	2	4.6	1.30	2.8	7.7
1C	BA/V	2	2.8	1.28	1.8	4.4

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=1D --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
1D	N	0				
1D	F	0				
1D	P	0				
1D	D	0				
1D	PAH	0				
1D	PHYT	0				
1D	PRIS	0				
1D	LALK	0				
1D	TALK	0				
1D	TOT	0				
1D	BA	2	471	1.08	403	551
1D	CD	2	0.16	1.24	0.10	0.24
1D	CR	2	75	1.08	65	87
1D	CU	2	26.0	1.01	25.3	26.7
1D	PB	2	19.5	1.28	12.0	31.7
1D	V	2	98	1.06	88	110
1D	ZN	2	85	1.01	84	87
1D	TOC	2	5.88	1.12	4.68	7.39
1D	MUD	2	23.9	1.47	11.3	51.0
1D	FFPI	0				
1D	ISO/ALK	0				
1D	LALK/TAL	0				
1D	PRIS/PHY	0				
1D	N/P	0				
1D	P/D	0				
1D	PAH/TOC	0				
1D	TOT/TOC	0				
1D	BA/CR	2	6.3	1.01	6.2	6.4
1D	BA/V	2	4.8	1.15	3.6	6.3

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=1E --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
1E	N	0				
1E	F	0				
1E	P	0				
1E	D	0				
1E	PAH	0				
1E	PHYT	0				
1E	PRIS	0				
1E	LALK	0				
1E	TALK	0				
1E	TOT	0				
1E	BA	2	407	1.19	290	572
1E	CD	2	0.12	1.11	0.10	0.15
1E	CR	2	67	1.02	64	69
1E	CU	2	21.9	1.15	16.5	29.0
1E	PB	2	16.6	1.30	9.9	27.7
1E	V	2	83	1.10	69	101
1E	ZN	2	74	1.14	57	95
1E	TOC	2	6.82	1.70	2.41	19.32
1E	MUD	2	49.6	1.87	14.5	169.3
1E	FFPI	0				
1E	ISO/ALK	0				
1E	LALK/TAL	0				
1E	PRIS/PHY	0				
1E	N/P	0				
1E	P/D	0				
1E	PAH/TOC	0				
1E	TOT/TOC	0				
1E	BA/CR	2	6.1	1.21	4.2	8.9
1E	BA/V	2	4.9	1.08	4.2	5.7

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

--- STATION=2A ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2A	N	0				
2A	F	0				
2A	P	0				
2A	D	0				
2A	PAH	0				
2A	PHYT	0				
2A	PRIS	0				
2A	LALK	0				
2A	TALK	0				
2A	TOT	0				
2A	BA	2	394	1.23	263	591
2A	CD	2	0.19	1.03	0.18	0.20
2A	CR	2	82	1.14	63	106
2A	CU	2	25.8	1.06	22.9	29.1
2A	PB	2	15.4	1.06	13.7	17.2
2A	V	2	114	1.00	113	115
2A	ZN	2	85	1.11	70	104
2A	TOC	2	13.37	1.21	9.16	19.50
2A	MUD	2	85.7	1.07	75.0	98.0
2A	FFPI	0				
2A	ISO/ALK	0				
2A	LALK/TAL	0				
2A	PRIS/PHY	0				
2A	N/P	0				
2A	P/D	0				
2A	PAH/TOC	0				
2A	TOT/TOC	0				
2A	BA/CR	2	4.8	1.40	2.5	9.3
2A	BA/V	2	3.5	1.23	2.3	5.2

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

--- STATION=28 ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
28	N	0				
28	F	0				
28	P	0				
28	D	0				
28	PAH	0				
28	PHYT	0				
28	PRIS	0				
28	LALK	0				
28	TALK	0				
28	TOT	0				
28	BA	2	301	1.15	229	394
28	CD	2	0.18	1.06	0.16	0.20
28	CR	2	78	1.01	76	79
28	CU	2	24.9	1.15	19.1	32.8
28	PB	2	14.1	1.12	11.3	17.7
28	V	2	116	1.09	98	138
28	ZN	2	89	1.08	77	104
28	TOC	2	5.28	1.87	1.54	18.07
28	MUD	2	10.4	1.05	9.4	11.5
28	FFPI	0				
28	ISO/ALK	0				
28	LALK/TAL	0				
28	PRIS/PHY	0				
28	N/P	0				
28	P/D	0				
28	PAH/TOC	0				
28	TOT/TOC	0				
28	BA/CR	2	3.9	1.12	3.0	5.0
28	BA/V	2	2.6	1.05	2.3	2.9

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                 GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                           AT EACH MARINE STATION IN THE BEAUFORT SEA

                                     FINE SEDIMENT SAMPLE DATA

------------------------------------------------------ STATION=2C ------------------------------------------------------

  STATION    TYPE OF          # NONMISSING    GEOMETRIC    % STD ERR OF    LOWER 95% CONF.    UPPER 95% CONF.
             CONCENTRATION       VALUES         MEAN        GEOM. MEAN     LIMIT FOR G.M.     LIMIT FOR G.M.

    2C         N                   0
    2C         F                   0
    2C         P                   0
    2C         D                   0
    2C         PAH                 0
    2C         PHYT                0
    2C         PRIS                0
    2C         LALK                0
    2C         TALK                0
    2C         TOT                 0
    2C         BA                  2            385           1.34            216                686
    2C         CD                  2            0.12          1.25            0.08               0.19
    2C         CR                  2            84            1.02            81                 88
    2C         CU                  2            25.0          1.08            21.5               29.0
    2C         PB                  2            17.6          1.09            14.9               20.9
    2C         V                   2            138           1.03            131                146
    2C         ZN                  2            103           1.02            100                107
    2C         TOC                 2            8.71          1.19            6.21               12.22
    2C         MUD                 2            63.8          1.12            51.5               79.0
    2C         FFPI                0
    2C         ISO/ALK             0
    2C         LALK/TAL            0
    2C         PRIS/PHY            0
    2C         N/P                 0
    2C         P/D                 0
    2C         PAH/TOC             0
    2C         TOT/TOC             0
    2C         BA/CR               2            4.6           1.37            2.5                8.5
    2C         BA/V                2            2.8           1.31            1.7                4.7
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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=2D --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2D	N	0				
2D	F	0				
2D	P	0				
2D	D	0				
2D	PAH	0				
2D	PHYT	0				
2D	PRIS	0				
2D	LALK	0				
2D	TALK	0				
2D	TOT	0				
2D	BA	2	332	1.01	326	339
2D	CD	2	0.27	1.06	0.24	0.30
2D	CR	2	83	1.03	77	88
2D	CU	2	27.3	1.12	22.0	34.0
2D	PB	2	16.0	1.18	11.5	22.3
2D	V	2	120	1.06	107	133
2D	ZN	2	100	1.09	85	118
2D	TOC	2	7.40	1.22	5.00	10.95
2D	MUD	2	17.5	1.14	13.4	22.7
2D	FFPI	0				
2D	ISO/ALK	0				
2D	LALK/TAL	0				
2D	PRIS/PHY	0				
2D	N/P	0				
2D	P/D	0				
2D	PAH/TOC	0				
2D	TOT/TOC	0				
2D	BA/CR	2	4.0	1.02	3.8	4.2
2D	BA/V	2	2.8	1.07	2.4	3.2

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

--- STATION=2E ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2E	N	0				
2E	F	0				
2E	P	0				
2E	D	0				
2E	PAH	0				
2E	PHYT	0				
2E	PRIS	0				
2E	LALK	0				
2E	TALK	0				
2E	TOT	0				
2E	BA	2	250	1.58	102	614
2E	CD	2	0.26	1.10	0.22	0.32
2E	CR	2	77	1.03	73	81
2E	CU	2	26.8	1.11	21.7	33.0
2E	PB	2	13.9	1.14	10.7	18.1
2E	V	2	120	1.10	99	145
2E	ZN	2	96	1.16	72	128
2E	TOC	3	5.01	1.54	2.16	11.61
2E	MUD	3	27.2	1.93	7.5	98.4
2E	FFPI	0				
2E	ISO/ALK	0				
2E	LALK/TAL	0				
2E	PRIS/PHY	0				
2E	N/P	0				
2E	P/D	0				
2E	PAH/TOC	0				
2E	TOT/TOC	0				
2E	BA/CR	2	3.3	1.63	1.3	8.5
2E	BA/V	2	2.1	1.74	0.7	6.2

0092

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=2F --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2F	N	0				
2F	F	0				
2F	P	0				
2F	D	0				
2F	PAH	0				
2F	PHYT	0				
2F	PRIS	0				
2F	LALK	0				
2F	TALK	0				
2F	TOT	0				
2F	BA	2	95	2.89	12	761
2F	CD	2	0.14	1.95	0.04	0.52
2F	CR	2	85	1.20	59	122
2F	CU	2	15.7	1.28	9.8	25.4
2F	PB	2	8.6	1.27	5.4	13.7
2F	V	2	82	1.08	70	95
2F	ZN	2	77	1.02	74	80
2F	TOC	3	4.29	1.19	3.05	6.03
2F	MUD	3	12.8	1.10	10.6	15.4
2F	FFPI	0				
2F	ISO/ALK	0				
2F	LALK/TAL	0				
2F	PRIS/PHY	0				
2F	N/P	0				
2F	P/D	0				
2F	PAH/TOC	0				
2F	TOT/TOC	0				
2F	BA/CR	2	1.1	3.48	0.1	12.8
2F	BA/V	2	1.2	2.67	0.2	8.0

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=3A --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
3A	N	0				
3A	F	0				
3A	P	0				
3A	D	0				
3A	PAH	0				
3A	PHYT	0				
3A	PRIS	0				
3A	LALK	0				
3A	TALK	0				
3A	TOT	0				
3A	BA	2	407	1.11	329	503
3A	CD	2	0.16	1.09	0.14	0.20
3A	CR	2	72	1.07	64	82
3A	CU	2	20.6	1.09	17.4	24.5
3A	PB	2	12.7	1.13	10.0	16.0
3A	V	2	108	1.01	107	110
3A	ZN	2	85	1.02	82	88
3A	TOC	3	8.65	1.13	6.83	10.94
3A	MUD	3	37.9	1.16	28.2	50.9
3A	FFP1	0				
3A	ISO/ALK	0				
3A	LALK/TAL	0				
3A	PRIS/PHY	0				
3A	N/P	0				
3A	P/D	0				
3A	PAH/TOC	0				
3A	TOT/TOC	0				
3A	BA/CR	2	5.6	1.19	4.0	7.9
3A	BA/V	2	3.8	1.12	3.0	4.7

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                         GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                                    AT EACH MARINE STATION IN THE BEAUFORT SEA

                                            FINE SEDIMENT SAMPLE DATA

-------------------------------------------------------------- STATION=38 --------------------------------------------------------------

          STATION    TYPE OF          # NONMISSING    GEOMETRIC    % STD ERR OF    LOWER 95% CONF.    UPPER 95% CONF.
                     CONCENTRATION       VALUES         MEAN        GEOM. MEAN     LIMIT FOR G.M.     LIMIT FOR G.M.

            38         N                   0
            38         F                   0
            38         P                   0
            38         D                   0
            38         PAH                 0
            38         PHYT                0
            38         PRIS                0
            38         LALK                0
            38         TALK                0
            38         TOT                 0
            38         BA                  2           377            1.03            358                396
            38         CD                  2           0.17           1.08            0.15               0.20
            38         CR                  2           73             1.10            61                 88
            38         CU                  2           19.9           1.04            18.4               21.4
            38         PB                  2           11.3           1.00            11.3               11.3
            38         V                   2           111            1.08            99                 124
            38         ZN                  2           83             1.04            77                 89
            38         TOC                 3           10.22          1.08            9.10               11.47
            38         MUD                 3           69.0           1.04            63.8               74.5
            38         FFPI                0
            38         ISO/ALK             0
            38         LALK/TAL            0
            38         PRIS/PHY            0
            38         N/P                 0
            38         P/D                 0
            38         PAH/TOC             0
            38         TOT/TOC             0
            38         BA/CR               2           5.2            1.13            4.1                6.5
            38         BA/V                2           3.4            1.08            2.9                4.0
```

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

---------- STATION=4A ----------

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
4A	N	0				
4A	F	0				
4A	P	0				
4A	D	0				
4A	PAH	0				
4A	PHYT	0				
4A	PRIS	0				
4A	LALK	0				
4A	TALK	0				
4A	TOT	0				
4A	BA	2	328	1.17	239	450
4A	CD	2	0.29	1.21	0.20	0.42
4A	CR	2	81	1.03	78	86
4A	CU	2	26.1	1.05	23.7	28.8
4A	PB	2	12.3	1.18	8.9	16.9
4A	V	2	127	1.01	125	130
4A	ZN	2	104	1.00	104	105
4A	TOC	3	7.79	1.33	4.42	13.72
4A	MUD	3	30.1	1.05	27.5	33.0
4A	FFPI	0				
4A	ISO/ALK	0				
4A	LALK/TAL	0				
4A	PRIS/PHY	0				
4A	N/P	0				
4A	P/D	0				
4A	PAH/TOC	0				
4A	TOT/TOC	0				
4A	BA/CR	2	4.1	1.14	3.2	5.2
4A	BA/V	2	2.6	1.19	1.8	3.8

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                    GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                              AT EACH MARINE STATION IN THE BEAUFORT SEA

                                       FINE SEDIMENT SAMPLE DATA

--------------------------------------------------------- STATION=4B ---------------------------------------------------------

    STATION     TYPE OF             # NONMISSING     GEOMETRIC     % STD ERR OF     LOWER 95% CONF.     UPPER 95% CONF.
                CONCENTRATION          VALUES          MEAN          GEOM. MEAN     LIMIT FOR G.M.      LIMIT FOR G.M.

      4B          N                      0
      4B          F                      0
      4B          P                      0
      4B          D                      0
      4B          PAH                    0
      4B          PHYT                   0
      4B          PRIS                   0
      4B          LALK                   0
      4B          TALK                   0
      4B          TOT                    0
      4B          BA                     2            300            1.16               225                 399
      4B          CD                     2            0.19           1.01               0.19                0.20
      4B          CR                     2            66             1.13               52                  84
      4B          CU                     2             19.3          1.00                19.2               19.3
      4B          PB                     2            9.6            1.11               7.8                 11.7
      4B          V                      2            103            1.05               93                  114
      4B          ZN                     2            87             1.08               78                  98
      4B          TOC                    3            3.39           1.16               2.53                4.55
      4B          MUD                    3            7.6            1.29               4.6                 12.4
      4B          FFPI                   0
      4B          ISO/ALK                0
      4B          LALK/TAL               0
      4B          PRIS/PHY               0
      4B          N/P                    0
      4B          P/D                    0
      4B          PAH/TOC                0
      4B          TOT/TOC                0
      4B          BA/CR                  2            4.5            1.02               4.4                 4.7
      4B          BA/V                   2            2.9            1.10               2.4                 3.5
```

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

---------- STATION=4C ----------

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
4C	N	0				
4C	F	0				
4C	P	0				
4C	D	0				
4C	PAH	0				
4C	PHYT	0				
4C	PRIS	0				
4C	LALK	0				
4C	TALK	0				
4C	TOT	0				
4C	BA	2	384	1.28	237	623
4C	CD	2	0.16	1.06	0.14	0.18
4C	CR	2	80	1.02	78	83
4C	CU	2	22.2	1.07	19.6	25.1
4C	PB	2	10.8	1.59	4.3	27.0
4C	V	2	122	1.00	122	123
4C	ZN	2	88	1.07	77	101
4C	TOC	3	4.86	1.49	2.21	10.69
4C	MUD	3	10.7	1.37	5.8	19.8
4C	FFPI	0				
4C	ISO/ALK	0				
4C	LALK/TAL	0				
4C	PRIS/PHY	0				
4C	N/P	0				
4C	P/D	0				
4C	PAH/TOC	0				
4C	TOT/TOC	0				
4C	BA/CR	2	4.8	1.31	2.8	8.2
4C	BA/V	2	3.1	1.28	1.9	5.1

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

STATION=5A

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
5A	N	0				
5A	F	0				
5A	P	0				
5A	D	0				
5A	PAH	0				
5A	PHYT	0				
5A	PRIS	0				
5A	LALK	0				
5A	TALK	0				
5A	TOT	0				
5A	BA	2	398	1.02	385	411
5A	CD	2	0.19	1.05	0.17	0.21
5A	CR	2	72	1.13	57	90
5A	CU	2	19.3	1.02	18.5	20.2
5A	PB	2	10.8	1.04	9.9	11.8
5A	V	2	106	1.06	95	118
5A	ZN	2	79	1.03	75	83
5A	TOC	3	9.57	1.23	6.33	14.48
5A	MUD	3	53.1	1.17	38.9	72.5
5A	FFPI	0				
5A	ISO/ALK	0				
5A	LALK/TAL	0				
5A	PRIS/PHY	0				
5A	N/P	0				
5A	P/D	0				
5A	PAH/TOC	0				
5A	TOT/TOC	0				
5A	BA/CR	2	5.5	1.11	4.5	6.8
5A	BA/V	2	3.8	1.04	3.5	4.1

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

--- STATION=58 ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
58	N	0				
58	F	0				
58	P	0				
58	D	0				
58	PAH	0				
58	PHYT	0				
58	PRIS	0				
58	LALK	0				
58	TALK	0				
58	TOT	0				
58	BA	2	330	1.01	324	336
58	CD	2	0.14	1.06	0.13	0.16
58	CR	2	87	1.07	77	99
58	CU	2	27.4	1.01	26.8	28.1
58	PB	2	14.0	1.18	10.2	19.3
58	V	2	144	1.03	138	152
58	ZN	2	121	1.17	90	164
58	TOC	3	5.22	1.62	2.03	13.39
58	MUD	3	21.9	2.65	3.2	148.0
58	FFPI	0				
58	ISO/ALK	0				
58	LALK/TAL	0				
58	PRIS/PHY	0				
58	N/P	0				
58	P/D	0				
58	PAH/TOC	0				
58	TOT/TOC	0				
58	BA/CR	2	3.8	1.08	3.3	4.4
58	BA/V	2	2.3	1.04	2.1	2.4

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                  GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                           AT EACH MARINE STATION IN THE BEAUFORT SEA

                                   FINE SEDIMENT SAMPLE DATA

------------------------------------------------- STATION=5D -------------------------------------------------

 STATION    TYPE OF          # NONMISSING   GEOMETRIC    % STD ERR OF   LOWER 95% CONF.   UPPER 95% CONF.
            CONCENTRATION       VALUES        MEAN        GEOM. MEAN    LIMIT FOR G.M.    LIMIT FOR G.M.

   5D         N                   0
   5D         F                   0
   5D         P                   0
   5D         D                   0
   5D         PAH                 0
   5D         PHYT                0
   5D         PRIS                0
   5D         LALK                0
   5D         TALK                0
   5D         TOT                 0
   5D         BA                  2          220          1.41            113               428
   5D         CD                  2          0.23         1.27            0.14              0.38
   5D         CR                  2          72           1.17            53                98
   5D         CU                  2          16.4         1.06            15.0              18.1
   5D         PB                  2          6.6          1.25            4.3               10.2
   5D         V                   2          90           1.02            86                94
   5D         ZN                  2          79           1.04            73                85
   5D         TOC                 3          17.83        1.28            11.02             28.85
   5D         MUD                 3          67.6         1.05            61.4              74.4
   5D         FFPI                0
   5D         ISO/ALK             0
   5D         LALK/TAL            0
   5D         PRIS/PHY            0
   5D         N/P                 0
   5D         P/D                 0
   5D         PAH/TOC             0
   5D         TOT/TOC             0
   5D         BA/CR               2          3.0          1.20            2.1               4.4
   5D         BA/V                2          2.4          1.37            1.3               4.6
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                GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                          AT EACH MARINE STATION IN THE BEAUFORT SEA

                                  FINE SEDIMENT SAMPLE DATA

---------------------------------------------- STATION=SE ----------------------------------------------

   STATION    TYPE OF          # NONMISSING   GEOMETRIC   % STD ERR OF   LOWER 95% CONF.   UPPER 95% CONF.
              CONCENTRATION       VALUES        MEAN       GEOM. MEAN    LIMIT FOR G.M.    LIMIT FOR G.M.

     SE          N                  0
     SE          F                  0
     SE          P                  0
     SE          D                  0
     SE          PAH                0
     SE          PHYT               0
     SE          PRIS               0
     SE          LALK               0
     SE          TALK               0
     SE          TOT                0
     SE          BA                 2          313          1.05             287               342
     SE          CD                 2          0.18         1.16             0.13              0.24
     SE          CR                 2          85           1.07             74                97
     SE          CU                 2          28.3         1.03             26.8              29.9
     SE          PB                 2          14.2         1.12             11.4              17.7
     SE          V                  2          147          1.01             143               151
     SE          ZN                 2          99           1.03             93                105
     SE          TOC                3          8.12         1.18             5.88              11.23
     SE          MUD                3          25.3         1.49             11.7              55.1
     SE          FFPI               0
     SE          ISO/ALK            0
     SE          LALK/TAL           0
     SE          PRIS/PHY           0
     SE          N/P                0
     SE          P/D                0
     SE          PAH/TOC            0
     SE          TOT/TOC            0
     SE          BA/CR              2          3.7          1.12             3.0               4.6
     SE          BA/V               2          2.1          1.06             1.9               2.4
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          GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                   AT EACH MARINE STATION IN THE BEAUFORT SEA

                            FINE SEDIMENT SAMPLE DATA

------------------------------------------- STATION=SF ---------------------------------------------

STATION   TYPE OF          # NONMISSING   GEOMETRIC   % STD ERR OF   LOWER 95% CONF.   UPPER 95% CONF.
          CONCENTRATION       VALUES        MEAN       GEOM. MEAN    LIMIT FOR G.M.    LIMIT FOR G.M.

  SF       N                    0
  SF       F                    0
  SF       P                    0
  SF       D                    0
  SF       PAH                  0
  SF       PHYT                 0
  SF       PRIS                 0
  SF       LALK                 0
  SF       TALK                 0
  SF       TOT                  0
  SF       BA                   2          182          2.11            35                954
  SF       CD                   2          0.22         1.16            0.17              0.30
  SF       CR                   2          66           1.18            48                91
  SF       CU                   2          13.9         1.13            10.9              17.8
  SF       PB                   2          7.3          1.16            5.4               9.7
  SF       V                    2          86           1.09            73                102
  SF       ZN                   2          80           1.06            69                93
  SF       TOC                  3          11.60        1.20            7.33              18.38
  SF       MUD                  3          51.9         1.12            41.8              64.4
  SF       FFPI                 0
  SF       ISO/ALK              0
  SF       LALK/TAL             0
  SF       PRIS/PHY             0
  SF       N/P                  0
  SF       P/D                  0
  SF       PAH/TOC              0
  SF       TOT/TOC              0
  SF       BA/CR                2          2.3          1.79            0.7               7.2
  SF       BA/V                 2          1.8          1.93            0.5               6.4
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                         GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                                   AT EACH MARINE STATION IN THE BEAUFORT SEA

                                            FINE SEDIMENT SAMPLE DATA

------------------------------------------------------------- STATION=5G -------------------------------------------------------------

    STATION     TYPE OF           # NONMISSING     GEOMETRIC      % STD ERR OF     LOWER 95% CONF.     UPPER 95% CONF.
                CONCENTRATION        VALUES          MEAN          GEOM. MEAN      LIMIT FOR G.M.      LIMIT FOR G.M.

      5G          N                    0
      5G          F                    0
      5G          P                    0
      5G          D                    0
      5G          PAH                  0
      5G          PHYT                 0
      5G          PRIS                 0
      5G          LALK                 0
      5G          TALK                 0
      5G          TOT                  0
      5G          BA                   2            287              1.04             268                 308
      5G          CD                   2            0.15             1.01             0.15                0.15
      5G          CR                   2            83               1.06             75                  92
      5G          CU                   2            18.7             1.01             18.3                19.2
      5G          PB                   2            11.7             1.17             8.6                 16.0
      5G          V                    2            115              1.02             110                 120
      5G          ZN                   2            85               1.02             82                  88
      5G          TOC                  3            5.60             1.14             4.36                7.19
      5G          MUD                  3            15.5             1.20             10.9                22.1
      5G          FFPI                 0
      5G          ISO/ALK              0
      5G          LALK/TAL             0
      5G          PRIS/PHY             0
      5G          N/P                  0
      5G          P/D                  0
      5G          PAH/TOC              0
      5G          TOT/TOC              0
      5G          BA/CR                2            3.5              1.02             3.4                 3.6
      5G          BA/V                 2            2.5              1.01             2.4                 2.6
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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=SH --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
SH	N	0				
SH	F	0				
SH	P	0				
SH	D	0				
SH	PAH	0				
SH	PHYT	0				
SH	PRIS	0				
SH	LALK	0				
SH	TALK	0				
SH	TOT	0				
SH	BA	2	259	1.38	138	485
SH	CD	2	0.22	1.04	0.20	0.23
SH	CR	2	69	1.10	57	83
SH	CU	2	19.8	1.06	17.7	22.0
SH	PB	2	10.3	1.12	8.3	12.8
SH	V	2	108	1.01	106	109
SH	ZN	2	82	1.08	71	94
SH	TOC	2	9.21	1.48	4.40	19.27
SH	MUD	2	18.1	1.18	13.5	24.2
SH	FFPI	0				
SH	ISO/ALK	0				
SH	LALK/TAL	0				
SH	PRIS/PHY	0				
SH	N/P	0				
SH	P/D	0				
SH	PAH/TOC	0				
SH	TOT/TOC	0				
SH	BA/CR	2	3.8	1.25	2.4	5.9
SH	BA/V	2	2.4	1.39	1.3	4.6

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                 GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                          AT EACH MARINE STATION IN THE BEAUFORT SEA

                                     FINE SEDIMENT SAMPLE DATA

------------------------------------------------------------- STATION=50 -------------------------------------------------------------

 STATION     TYPE OF           # NONMISSING    GEOMETRIC    % STD ERR OF    LOWER 95% CONF.    UPPER 95% CONF.
             CONCENTRATION       VALUES          MEAN        GEOM. MEAN     LIMIT FOR G.M.     LIMIT FOR G.M.

   50          N                   0
   50          F                   0
   50          P                   0
   50          D                   0
   50          PAH                 0
   50          PHYT                0
   50          PRIS                0
   50          LALK                0
   50          TALK                0
   50          TOT                 0
   50          BA                  2           241           1.15             184                315
   50          CD                  2           0.25          1.18             0.19               0.33
   50          CR                  2           61            1.19             43                 86
   50          CU                  2           19.2          1.02             18.4               20.1
   50          PB                  2           9.2           1.02             8.7                9.8
   50          V                   2           98            1.03             92                 105
   50          ZN                  2           85            1.09             72                 100
   50          TOC                 2           3.37          1.15             2.55               4.46
   50          MUD                 2           6.6           1.40             3.4                12.7
   50          FFPI                0
   50          ISO/ALK             0
   50          LALK/TAL            0
   50          PRIS/PHY            0
   50          N/P                 0
   50          P/D                 0
   50          PAH/TOC             0
   50          TOT/TOC             0
   50          BA/CR               2           4.0           1.04             3.7                4.3
   50          BA/V                2           2.4           1.11             2.0                3.0
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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

---------- STATION=51 ----------

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
51	N	0				
51	F	0				
51	P	0				
51	D	0				
51	PAH	0				
51	PHYT	0				
51	PRIS	0				
51	LALK	0				
51	TALK	0				
51	TOT	0				
51	BA	2	250	1.12	202	310
51	CD	2	0.32	1.28	0.20	0.52
51	CR	2	69	1.00	68	69
51	CU	2	15.1	1.08	13.5	16.9
51	PB	2	9.0	1.28	5.6	14.5
51	V	2	84	1.10	70	101
51	ZN	2	71	1.10	59	86
51	TOC	3	3.51	1.18	2.53	4.87
51	MUD	3	3.3	1.91	0.9	11.7
51	FFPI	0				
51	ISO/ALK	0				
51	LALK/TAL	0				
51	PRIS/PHY	0				
51	N/P	0				
51	P/D	0				
51	PAH/TOC	0				
51	TOT/TOC	0				
51	BA/CR	2	3.6	1.12	2.9	4.5
51	BA/V	2	3.0	1.02	2.9	3.1

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

STATION=52

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
52	N	0				
52	F	0				
52	P	0				
52	D	0				
52	PAH	0				
52	PHYT	0				
52	PRIS	0				
52	LALK	0				
52	TALK	0				
52	TOT	0				
52	BA	0				
52	CD	0				
52	CR	0				
52	CU	0				
52	PB	0				
52	V	0				
52	ZN	0				
52	TOC	1	2.82			
52	MUD	1	3.5			
52	FFPI	0				
52	ISO/ALK	0				
52	LALK/TAL	0				
52	PRIS/PHY	0				
52	N/P	0				
52	P/D	0				
52	PAH/TOC	0				
52	TOT/TOC	0				
52	BA/CR	0				
52	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=55 --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
55	N	1	0.34			
55	F	1	0.070			
55	P	1	0.26			
55	D	1	0.032			
55	PAH	1	0.32			
55	PHYT	1	0.066			
55	PRIS	1	0.131			
55	LALK	1	2.22			
55	TALK	1	12.26			
55	TOT	1	20.88			
55	BA	2	356	1.07	314	404
55	CD	2	0.20	1.08	0.17	0.23
55	CR	2	75	1.06	65	86
55	CU	2	20.1	1.05	18.2	22.2
55	PB	2	10.9	1.01	10.7	11.1
55	V	2	108	1.02	105	112
55	ZN	2	81	1.08	72	91
55	TOC	3	5.71	1.26	3.64	8.94
55	MUD	3	21.2	1.37	11.5	39.0
55	FFPI	1	68			
55	ISO/ALK	1	0.398			
55	LALK/TAL	1	0.181			
55	PRIS/PHY	1	2.0			
55	N/P	1	1.3			
55	P/D	1	8.0			
55	PAH/TOC	1	0.069			
55	TOT/TOC	1	4.5			
55	BA/CR	2	4.8	1.15	3.6	6.2
55	BA/V	2	3.3	1.09	2.8	3.9

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=510 --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
510	N	0				
510	F	0				
510	P	0				
510	D	0				
510	PAH	0				
510	PHYT	0				
510	PRIS	0				
510	LALK	0				
510	TALK	0				
510	TOT	0				
510	BA	2	329	1.20	232	468
510	CD	2	0.18	1.18	0.13	0.25
510	CR	2	68	1.09	57	81
510	CU	2	17.8	1.07	15.6	20.3
510	PB	2	9.7	1.03	9.2	10.2
510	V	2	98	1.00	97	99
510	ZN	2	75	1.05	69	82
510	TOC	3	7.20	1.23	4.82	10.76
510	MUD	3	22.0	1.22	14.9	32.6
510	FFPI	0				
510	ISO/ALK	0				
510	LALK/TAL	0				
510	PRIS/PHY	0				
510	N/P	0				
510	P/D	0				
510	PAH/TOC	0				
510	TOT/TOC	0				
510	BA/CR	2	4.8	1.10	4.0	5.8
510	BA/V	2	3.4	1.19	2.4	4.8

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=6A --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6A	N	0				
6A	F	0				
6A	P	0				
6A	D	0				
6A	PAH	0				
6A	PHYT	0				
6A	PRIS	0				
6A	LALK	0				
6A	TALK	0				
6A	TOT	0				
6A	BA	2	342	1.04	319	366
6A	CD	2	0.19	1.11	0.15	0.23
6A	CR	2	84	1.11	68	103
6A	CU	2	21.2	1.09	17.9	25.1
6A	PB	2	12.0	1.21	8.3	17.3
6A	V	2	111	1.03	106	117
6A	ZN	2	94	1.07	83	106
6A	TOC	3	11.25	1.11	9.24	13.70
6A	MUD	3	72.9	1.06	64.8	82.0
6A	FFPI	0				
6A	ISO/ALK	0				
6A	LALK/TAL	0				
6A	PRIS/PHY	0				
6A	N/P	0				
6A	P/D	0				
6A	PAH/TOC	0				
6A	TOT/TOC	0				
6A	BA/CR	2	4.1	1.15	3.1	5.4
6A	BA/V	2	3.1	1.01	3.0	3.1

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=6B --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6B	N	0				
6B	F	0				
6B	P	0				
6B	D	0				
6B	PAH	0				
6B	PHYT	0				
6B	PRIS	0				
6B	LALK	0				
6B	TALK	0				
6B	TOT	0				
6B	BA	2	496	1.05	449	548
6B	CD	2	0.23	1.06	0.20	0.26
6B	CR	2	99	1.10	82	120
6B	CU	2	34.3	1.08	29.7	39.6
6B	PB	2	14.8	1.04	13.7	15.9
6B	V	2	147	1.03	139	155
6B	ZN	2	121	1.04	113	130
6B	TOC	3	16.63	1.05	15.03	18.41
6B	MUD	3	83.9	1.03	79.3	88.8
6B	FFPI	0				
6B	ISO/ALK	0				
6B	LALK/TAL	0				
6B	PRIS/PHY	0				
6B	N/P	0				
6B	P/D	0				
6B	PAH/TOC	0				
6B	TOT/TOC	0				
6B	BA/CR	2	5.0	1.16	3.8	6.7
6B	BA/V	2	3.4	1.08	2.9	3.9

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

STATION=6C

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6C	N	0				
6C	F	0				
6C	P	0				
6C	D	0				
6C	PAH	0				
6C	PHYT	0				
6C	PRIS	0				
6C	LALK	0				
6C	TALK	0				
6C	TOT	0				
6C	BA	2	312	1.28	191	509
6C	CD	2	0.14	1.21	0.10	0.20
6C	CR	2	93	1.05	85	101
6C	CU	2	29.4	1.04	27.5	31.5
6C	PB	2	15.5	1.08	13.9	17.4
6C	V	2	153	1.01	150	156
6C	ZN	2	108	1.04	99	117
6C	TOC	3	7.32	1.10	6.04	8.88
6C	MUD	3	34.0	1.18	24.5	47.3
6C	FFPI	0				
6C	ISO/ALK	0				
6C	LALK/TAL	0				
6C	PRIS/PHY	0				
6C	N/P	0				
6C	P/D	0				
6C	PAH/TOC	0				
6C	TOT/TOC	0				
6C	BA/CR	2	3.4	1.34	1.9	6.0
6C	BA/V	2	2.0	1.30	1.2	3.4

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=6D --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6D	N	1	0.69			
6D	F	1	0.151			
6D	P	1	0.49			
6D	D	1	0.073			
6D	PAH	1	0.61			
6D	PHYT	1	0.141			
6D	PRIS	1	0.257			
6D	LALK	1	3.33			
6D	TALK	1	16.72			
6D	TOT	1	34.68			
6D	BA	2	333	1.08	285	390
6D	CD	2	0.11	1.34	0.06	0.19
6D	CR	2	89	1.11	72	109
6D	CU	2	25.5	1.04	23.5	27.6
6D	PB	2	14.0	1.00	13.9	14.0
6D	V	2	142	1.07	125	161
6D	ZN	2	98	1.03	93	103
6D	TOC	3	4.51	1.16	3.36	6.07
6D	MUD	3	13.6	1.62	5.3	35.0
6D	FFPI	1	70			
6D	ISO/ALK	1	0.448			
6D	LALK/TAL	1	0.199			
6D	PRIS/PHY	1	1.8			
6D	N/P	1	1.4			
6D	P/D	1	6.8			
6D	PAH/TOC	1	0.145			
6D	TOT/TOC	1	8.3			
6D	BA/CR	2	3.8	1.21	2.6	5.4
6D	BA/V	2	2.3	1.16	1.8	3.1

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=BF --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
BF	N	0				
BF	F	0				
BF	P	0				
BF	D	0				
BF	PAH	0				
BF	PHYT	0				
BF	PRIS	0				
BF	LALK	0				
BF	TALK	0				
BF	TOT	0				
BF	BA	2	266	1.14	204	348
BF	CD	2	0.14	1.01	0.14	0.15
BF	CR	2	100	1.12	79	125
BF	CU	2	24.5	1.13	19.1	31.4
BF	PB	2	14.3	1.01	14.1	14.5
BF	V	2	138	1.08	118	160
BF	ZN	2	93	1.01	92	94
BF	TOC	3	8.34	1.09	6.99	9.94
BF	MUD	3	46.3	1.14	35.6	60.3
BF	FFPI	0				
BF	ISO/ALK	0				
BF	LALK/TAL	0				
BF	PRIS/PHY	0				
BF	N/P	0				
BF	P/D	0				
BF	PAH/TOC	0				
BF	TOT/TOC	0				
BF	BA/CR	2	2.7	1.02	2.6	2.8
BF	BA/V	2	1.9	1.06	1.7	2.2

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

--- STATION=6G ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6G	N	0				
6G	F	0				
6G	P	0				
6G	D	0				
6G	PAH	0				
6G	PHYT	0				
6G	PRIS	0				
6G	LALK	0				
6G	TALK	0				
6G	TOT	0				
6G	BA	2	207	1.40	107	400
6G	CD	2	0.19	1.26	0.12	0.29
6G	CR	2	78	1.25	51	120
6G	CU	2	18.0	1.07	15.8	20.6
6G	PB	2	9.1	1.27	5.7	14.5
6G	V	2	100	1.02	96	104
6G	ZN	2	87	1.10	73	105
6G	TOC	2	13.53	1.36	7.44	24.61
6G	MUD	2	77.0	1.03	73.1	81.1
6G	FFPI	0				
6G	ISO/ALK	0				
6G	LALK/TAL	0				
6G	PRIS/PHY	0				
6G	N/P	0				
6G	P/D	0				
6G	PAH/TOC	0				
6G	TOT/TOC	0				
6G	BA/CR	2	2.6	1.12	2.1	3.3
6G	BA/V	2	2.1	1.43	1.0	4.2

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=7A --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7A	N	0				
7A	F	0				
7A	P	0				
7A	D	0				
7A	PAH	0				
7A	PHYT	0				
7A	PRIS	0				
7A	LALK	0				
7A	TALK	0				
7A	TOT	0				
7A	BA	2	698	1.11	564	863
7A	CD	2	0.10	1.05	0.09	0.11
7A	CR	2	114	1.27	72	182
7A	CU	2	18.9	1.33	10.9	33.0
7A	PB	2	11.1	1.03	10.4	11.9
7A	V	2	110	1.14	86	141
7A	ZN	2	90	1.04	83	97
7A	TOC	3	10.12	1.05	9.21	11.11
7A	MUD	3	61.6	1.07	53.5	71.0
7A	FFPI	0				
7A	ISO/ALK	0				
7A	LALK/TAL	0				
7A	PRIS/PHY	0				
7A	N/P	0				
7A	P/D	0				
7A	PAH/TOC	0				
7A	TOT/TOC	0				
7A	BA/CR	2	6.1	1.41	3.1	12.0
7A	BA/V	2	6.3	1.27	4.0	10.1

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=7B --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7B	N	0				
7B	F	0				
7B	P	0				
7B	D	0				
7B	PAH	0				
7B	PHYT	0				
7B	PRIS	0				
7B	LALK	0				
7B	TALK	0				
7B	TOT	0				
7B	BA	2	459	1.41	233	903
7B	CD	2	0.10	1.24	0.07	0.18
7B	CR	2	134	1.20	93	192
7B	CU	2	20.0	1.35	11.1	35.8
7B	PB	2	11.5	1.05	10.4	12.7
7B	V	2	113	1.22	76	167
7B	ZN	2	86	1.21	59	124
7B	TOC	3	5.27	1.03	4.95	5.61
7B	MUD	3	11.8	1.28	7.3	19.0
7B	FFPI	0				
7B	ISO/ALK	0				
7B	LALK/TAL	0				
7B	PRIS/PHY	0				
7B	N/P	0				
7B	P/D	0				
7B	PAH/TOC	0				
7B	TOT/TOC	0				
7B	BA/CR	2	3.4	1.70	1.2	9.7
7B	BA/V	2	4.1	1.73	1.4	11.9

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          GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                   AT EACH MARINE STATION IN THE BEAUFORT SEA

                              FINE SEDIMENT SAMPLE DATA

------------------------------------------------------------- STATION=7C ------------------------------------------------------------

STATION   TYPE OF          # NONMISSING   GEOMETRIC   % STD ERR OF   LOWER 95% CONF.   UPPER 95% CONF.
          CONCENTRATION      VALUES         MEAN       GEOM. MEAN    LIMIT FOR G.M.    LIMIT FOR G.M.

  7C        N                  0
  7C        F                  0
  7C        P                  0
  7C        D                  0
  7C        PAH                0
  7C        PHYT               0
  7C        PRIS               0
  7C        LALK               0
  7C        TALK               0
  7C        TOT                0
  7C        BA                 2          373            1.30            221               628
  7C        CD                 2          0.19           1.27            0.12              0.30
  7C        CR                 2          84             1.15            64                111
  7C        CU                 2          25.8           1.07            22.8              29.2
  7C        PB                 2          14.5           1.15            11.1              19.0
  7C        V                  2          136            1.08            115               161
  7C        ZN                 2          101            1.07            89                114
  7C        TOC                3          10.91          1.21            7.49              15.91
  7C        MUD                3          86.5           1.01            84.3              88.8
  7C        FFPI               0
  7C        ISO/ALK            0
  7C        LALK/TAL           0
  7C        PRIS/PHY           0
  7C        N/P                0
  7C        P/D                0
  7C        PAH/TOC            0
  7C        TOT/TOC            0
  7C        BA/CR              2          4.4            1.50            2.0               9.8
  7C        BA/V               2          2.7            1.42            1.4               5.5
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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

-- STATION=7D --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7D	N	0				
7D	F	0				
7D	P	0				
7D	D	0				
7D	PAH	0				
7D	PHYT	0				
7D	PRIS	0				
7D	LALK	0				
7D	TALK	0				
7D	TOT	0				
7D	BA	2	420	1.15	319	554
7D	CD	2	0.15	1.08	0.13	0.17
7D	CR	2	103	1.24	67	157
7D	CU	2	23.9	1.18	17.2	33.3
7D	PB	2	12.0	1.19	8.5	17.0
7D	V	2	119	1.08	107	133
7D	ZN	2	92	1.12	74	115
7D	TOC	2	6.36	1.54	2.74	14.78
7D	MUD	2	25.0	1.59	10.0	62.5
7D	FFPI	0				
7D	ISO/ALK	0				
7D	LALK/TAL	0				
7D	PRIS/PHY	0				
7D	N/P	0				
7D	P/D	0				
7D	PAH/TOC	0				
7D	TOT/TOC	0				
7D	BA/CR	2	4.1	1.43	2.0	8.2
7D	BA/V	2	3.5	1.09	3.0	4.2

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

STATION=7E

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7E	N	0				
7E	F	0				
7E	P	0				
7E	D	0				
7E	PAH	0				
7E	PHYT	0				
7E	PRIS	0				
7E	LALK	0				
7E	TALK	0				
7E	TOT	0				
7E	BA	2	568	1.38	302	1067
7E	CD	2	0.12	1.14	0.10	0.16
7E	CR	2	112	1.19	79	158
7E	CU	2	21.2	1.12	16.9	26.7
7E	PB	2	12.0	1.19	8.5	17.1
7E	V	2	119	1.09	101	140
7E	ZN	2	114	1.31	67	194
7E	TOC	3	17.41	1.19	12.31	24.64
7E	MUD	3	69.3	1.08	61.7	77.9
7E	FFPI	0				
7E	ISO/ALK	0				
7E	LALK/TAL	0				
7E	PRIS/PHY	0				
7E	N/P	0				
7E	P/D	0				
7E	PAH/TOC	0				
7E	TOT/TOC	0				
7E	BA/CR	2	5.1	1.65	1.9	13.5
7E	BA/V	2	4.8	1.50	2.2	10.6

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

FINE SEDIMENT SAMPLE DATA

STATION=7G

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7G	N	0				
7G	F	0				
7G	P	0				
7G	D	0				
7G	PAH	0				
7G	PHYT	0				
7G	PRIS	0				
7G	LALK	0				
7G	TALK	0				
7G	TOT	0				
7G	BA	2	676	1.07	591	774
7G	CD	2	0.14	1.02	0.13	0.14
7G	CR	2	132	1.47	62	280
7G	CU	2	17.6	1.25	11.3	27.5
7G	PB	2	9.9	1.05	9.1	10.8
7G	V	2	100	1.18	72	138
7G	ZN	2	81	1.13	64	102
7G	TOC	3	13.04	1.38	6.92	24.56
7G	MUD	3	22.9	1.57	9.5	55.4
7G	FFPI	0				
7G	ISO/ALK	0				
7G	LALK/TAL	0				
7G	PRIS/PHY	0				
7G	N/P	0				
7G	P/D	0				
7G	PAH/TOC	0				
7G	TOT/TOC	0				
7G	BA/CR	2	5.1	1.57	2.1	12.4
7G	BA/V	2	6.8	1.27	4.3	10.8

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=1A --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
1A	N	2	0.10	1.51	0.04	0.22
1A	F	2	0.018	1.57	0.007	0.044
1A	P	2	0.09	1.32	0.05	0.15
1A	D	2	0.014	1.18	0.010	0.019
1A	PAH	2	0.09	1.09	0.08	0.11
1A	PHYT	2	0.022	1.09	0.018	0.028
1A	PRIS	2	0.043	1.18	0.031	0.059
1A	LALK	2	0.50	1.00	0.50	0.51
1A	TALK	2	6.63	1.06	5.88	7.48
1A	TOT	2	15.09	1.10	12.60	18.08
1A	BA	0				
1A	CD	0				
1A	CR	0				
1A	CU	0				
1A	PB	0				
1A	V	0				
1A	ZN	0				
1A	TOC	2	9.64	1.20	6.73	13.82
1A	MUD	2	64.1	1.06	57.0	72.1
1A	FFPI	2	69	1.13	54	88
1A	ISO/ALK	2	0.396	1.04	0.369	0.425
1A	LALK/TAL	2	0.078	1.07	0.067	0.089
1A	PRIS/PHY	2	2.0	1.07	1.7	2.3
1A	N/P	2	1.1	1.15	0.8	1.5
1A	P/D	2	6.4	1.11	5.1	7.9
1A	PAH/TOC	2	0.010	1.10	0.008	0.012
1A	TOT/TOC	2	1.6	1.10	1.3	1.9
1A	BA/CR	0				
1A	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=1B --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
1B	N	2	0.03	1.11	0.03	0.04
1B	F	2	0.028	2.88	0.004	0.183
1B	P	2	0.04	1.04	0.03	0.04
1B	D	2	0.013	2.22	0.003	0.065
1B	PAH	2	0.05	1.37	0.03	0.08
1B	PHYT	2	0.017	1.06	0.015	0.019
1B	PRIS	2	0.032	1.13	0.028	0.041
1B	LALK	2	0.37	1.12	0.29	0.48
1B	TALK	2	2.37	1.06	2.06	2.74
1B	TOT	2	4.87	1.03	4.63	5.12
1B	BA	0				
1B	CD	0				
1B	CR	0				
1B	CU	0				
1B	PB	0				
1B	V	0				
1B	ZN	0				
1B	TOC	2	7.23	1.12	5.81	8.99
1B	MUD	2	13.1	1.08	11.2	15.4
1B	FFPI	2	73	1.03	69	77
1B	ISO/ALK	2	0.468	1.01	0.457	0.480
1B	LALK/TAL	2	0.154	1.04	0.141	0.168
1B	PRIS/PHY	2	1.9	1.07	1.7	2.2
1B	N/P	2	0.9	1.15	0.7	1.2
1B	P/D	2	5.7	1.02	5.5	5.9
1B	PAH/TOC	2	0.007	1.23	0.004	0.010
1B	TOT/TOC	2	0.7	1.09	0.6	0.8
1B	BA/CR	0				
1B	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=1C --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
1C	N	2	0.17	1.28	0.10	0.27
1C	F	2	0.039	1.91	0.011	0.140
1C	P	2	0.13	1.30	0.08	0.22
1C	D	2	0.018	2.06	0.004	0.074
1C	PAH	2	0.19	1.23	0.13	0.28
1C	PHYT	2	0.078	1.06	0.070	0.087
1C	PRIS	2	0.123	1.13	0.098	0.155
1C	LALK	2	1.03	1.04	0.96	1.11
1C	TALK	2	6.48	1.01	6.30	6.67
1C	TOT	2	19.72	1.23	13.06	29.77
1C	BA	0				
1C	CD	0				
1C	CR	0				
1C	CU	0				
1C	PB	0				
1C	V	0				
1C	ZN	0				
1C	TOC	2	8.94	1.07	7.82	10.23
1C	MUD	2	69.9	1.00	69.9	70.0
1C	FFPI	2	63	1.08	54	73
1C	ISO/ALK	2	0.581	1.06	0.515	0.656
1C	LALK/TAL	2	0.159	1.02	0.152	0.167
1C	PRIS/PHY	2	1.6	1.07	1.4	1.8
1C	N/P	2	1.3	1.01	1.3	1.3
1C	P/D	2	6.7	1.46	3.2	14.1
1C	PAH/TOC	2	0.021	1.15	0.016	0.028
1C	TOT/TOC	2	2.2	1.15	1.7	2.9
1C	BA/CR	0				
1C	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

--- STATION=1D ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
1D	N	2	0.02	1.17	0.02	0.03
1D	F	2	0.004	1.92	0.001	0.014
1D	P	2	0.02	1.19	0.01	0.03
1D	D	2	0.001	1.07	0.001	0.002
1D	PAH	2	0.01	1.83	0.00	0.04
1D	PHYT	2	0.006	1.06	0.005	0.006
1D	PRIS	2	0.012	1.04	0.011	0.013
1D	LALK	2	0.24	1.22	0.16	0.35
1D	TALK	2	3.16	1.06	2.81	3.55
1D	TOT	2	14.24	2.97	1.69	120.38
1D	BA	0				
1D	CD	0				
1D	CR	0				
1D	CU	0				
1D	PB	0				
1D	V	0				
1D	ZN	0				
1D	TOC	2	5.88	1.12	4.68	7.39
1D	MUD	2	23.9	1.47	11.3	51.0
1D	FFPI	2	75	1.14	58	97
1D	ISO/ALK	2	0.240	1.22	0.163	0.351
1D	LALK/TAL	2	0.076	1.15	0.058	0.099
1D	PRIS/PHY	2	2.3	1.02	2.2	2.4
1D	N/P	2	1.3	1.02	1.3	1.4
1D	P/D	2	13.6	1.11	11.0	16.8
1D	PAH/TOC	2	0.002	1.63	0.001	0.006
1D	TOT/TOC	2	2.4	3.34	0.2	25.7
1D	BA/CR	0				
1D	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=1E --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
1E	N	2	0.02	2.34	0.00	0.10
1E	F	2	0.004	1.99	0.001	0.015
1E	P	2	0.02	1.95	0.01	0.07
1E	D	2	0.003	1.02	0.003	0.003
1E	PAH	2	0.02	2.15	0.00	0.08
1E	PHYT	2	0.008	1.77	0.003	0.025
1E	PRIS	2	0.018	1.82	0.008	0.042
1E	LALK	2	0.48	2.15	0.11	2.14
1E	TALK	2	5.29	2.23	1.10	25.57
1E	TOT	2	10.83	2.08	2.57	45.59
1E	BA	0				
1E	CD	0				
1E	CR	0				
1E	CU	0				
1E	PB	0				
1E	V	0				
1E	ZN	0				
1E	TOC	2	6.82	1.70	2.41	19.32
1E	MUD	2	49.6	1.87	14.5	169.3
1E	FFPI	2	76	1.07	67	87
1E	ISO/ALK	2	0.153	1.22	0.104	0.227
1E	LALK/TAL	2	0.090	1.04	0.084	0.097
1E	PRIS/PHY	2	2.0	1.09	1.7	2.4
1E	N/P	2	0.9	1.20	0.7	1.3
1E	P/D	2	7.3	1.84	2.2	24.1
1E	PAH/TOC	2	0.003	1.28	0.002	0.004
1E	TOT/TOC	2	1.6	1.22	1.1	2.4
1E	BA/CR	0				
1E	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=2A --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2A	N	2	0.30	1.02	0.29	0.32
2A	F	2	0.097	1.02	0.093	0.101
2A	P	2	0.37	1.00	0.36	0.37
2A	D	2	0.047	1.15	0.036	0.062
2A	PAH	2	0.31	1.01	0.30	0.31
2A	PHYT	2	0.069	1.13	0.054	0.087
2A	PRIS	2	0.116	1.27	0.073	0.185
2A	LALK	2	1.36	1.12	1.08	1.70
2A	TALK	2	9.27	1.03	8.67	9.90
2A	TOT	2	22.00	1.04	20.19	23.97
2A	BA	0				
2A	CD	0				
2A	CR	0				
2A	CU	0				
2A	PB	0				
2A	V	0				
2A	ZN	0				
2A	TOC	2	13.37	1.21	9.16	19.50
2A	MUD	2	85.7	1.07	75.0	98.0
2A	FFPI	2	73	1.01	71	74
2A	ISO/ALK	2	0.438	1.02	0.419	0.458
2A	LALK/TAL	2	0.146	1.09	0.124	0.172
2A	PRIS/PHY	2	1.7	1.13	1.3	2.1
2A	N/P	2	0.8	1.02	0.8	0.9
2A	P/D	2	7.8	1.15	5.9	10.2
2A	PAH/TOC	2	0.023	1.20	0.016	0.033
2A	TOT/TOC	2	1.6	1.27	1.0	2.6
2A	BA/CR	0				
2A	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

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BULK SEDIMENT SAMPLE DATA

-- STATION=2B --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2B	N	2	0.05	1.18	0.04	0.07
2B	F	2	0.013	1.37	0.007	0.023
2B	P	2	0.05	1.19	0.04	0.07
2B	D	2	0.008	1.07	0.007	0.009
2B	PAH	2	0.05	1.32	0.03	0.09
2B	PHYT	2	0.008	1.91	0.002	0.031
2B	PRIS	2	0.026	1.12	0.021	0.033
2B	LALK	2	0.24	1.38	0.13	0.46
2B	TALK	2	1.71	1.65	0.64	4.54
2B	TOT	2	4.90	1.14	3.78	6.38
2B	BA	0				
2B	CD	0				
2B	CR	0				
2B	CU	0				
2B	PB	0				
2B	V	0				
2B	ZN	0				
2B	TOC	2	5.28	1.87	1.54	18.07
2B	MUD	2	10.4	1.05	9.4	11.5
2B	FFPI	2	71	1.03	68	75
2B	ISO/ALK	2	0.459	1.04	0.428	0.492
2B	LALK/TAL	2	0.143	1.20	0.101	0.204
2B	PRIS/PHY	2	2.3	1.28	1.4	3.7
2B	N/P	2	1.1	1.02	1.0	1.1
2B	P/D	2	6.6	1.11	5.3	8.1
2B	PAH/TOC	2	0.010	1.42	0.005	0.020
2B	TOT/TOC	2	0.9	1.64	0.4	2.4
2B	BA/CR	0				
2B	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=2C

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2C	N	2	0.28	1.22	0.19	0.42
2C	F	2	0.085	1.18	0.061	0.118
2C	P	2	0.20	1.17	0.15	0.28
2C	D	2	0.051	1.33	0.029	0.090
2C	PAH	2	0.22	1.02	0.21	0.23
2C	PHYT	2	0.073	1.07	0.064	0.084
2C	PRIS	2	0.113	1.01	0.111	0.115
2C	LALK	2	0.95	1.09	0.80	1.13
2C	TALK	2	5.98	1.08	5.10	7.01
2C	TOT	2	13.82	1.03	13.06	14.62
2C	BA	0				
2C	CD	0				
2C	CR	0				
2C	CU	0				
2C	PB	0				
2C	V	0				
2C	ZN	0				
2C	TOC	2	8.71	1.18	6.21	12.22
2C	MUD	2	63.8	1.12	51.5	79.0
2C	FFPI	2	73	1.06	65	82
2C	ISO/ALK	2	0.552	1.01	0.542	0.561
2C	LALK/TAL	2	0.159	1.01	0.157	0.161
2C	PRIS/PHY	2	1.5	1.06	1.4	1.7
2C	N/P	2	1.4	1.04	1.3	1.5
2C	P/D	2	4.0	1.14	3.1	5.1
2C	PAH/TOC	2	0.026	1.17	0.019	0.035
2C	TOT/TOC	2	1.6	1.15	1.2	2.1
2C	BA/CR	0				
2C	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

---------- STATION=2D ----------

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2D	N	2	0.11	1.53	0.05	0.24
2D	F	2	0.026	1.31	0.015	0.044
2D	P	2	0.08	1.59	0.03	0.22
2D	D	2	0.018	1.23	0.012	0.026
2D	PAH	2	0.08	1.11	0.07	0.10
2D	PHYT	2	0.016	1.59	0.006	0.039
2D	PRIS	2	0.029	1.78	0.010	0.087
2D	LALK	2	0.40	1.52	0.17	0.90
2D	TALK	2	2.82	1.41	1.44	5.55
2D	TOT	2	9.83	1.63	3.76	25.71
2D	BA	0				
2D	CD	0				
2D	CR	0				
2D	CU	0				
2D	PB	0				
2D	V	0				
2D	ZN	0				
2D	TOC	2	7.40	1.22	5.00	10.95
2D	MUD	2	17.5	1.14	13.4	22.7
2D	FFPI	2	72	1.10	60	87
2D	ISO/ALK	2	0.393	1.03	0.372	0.415
2D	LALK/TAL	2	0.140	1.08	0.121	0.163
2D	PRIS/PHY	2	1.8	1.11	1.5	2.2
2D	N/P	2	1.2	1.04	1.1	1.3
2D	P/D	2	5.7	1.13	4.5	7.2
2D	PAH/TOC	2	0.011	1.35	0.006	0.021
2D	TOT/TOC	2	1.3	1.99	0.3	5.1
2D	BA/CR	0				
2D	BA/V	0				

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=2E --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2E	N	3	0.06	1.91	0.02	0.20
2E	F	3	0.018	2.52	0.003	0.112
2E	P	3	0.07	1.56	0.03	0.16
2E	D	3	0.009	1.63	0.003	0.024
2E	PAH	3	0.05	1.99	0.01	0.18
2E	PHYT	3	0.016	2.02	0.004	0.063
2E	PRIS	3	0.032	1.87	0.009	0.108
2E	LALK	3	0.49	1.51	0.22	1.09
2E	TALK	3	2.38	1.83	0.73	7.74
2E	TOT	3	7.94	1.78	2.55	24.73
2E	BA	2	161	1.20	112	231
2E	CD	2	0.20	1.52	0.09	0.46
2E	CR	2	55	1.47	26	116
2E	CU	2	21.2	1.42	10.8	42.0
2E	PB	2	9.3	1.97	2.5	35.5
2E	V	2	82	1.64	31	217
2E	ZN	2	62	1.86	18	213
2E	TOC	3	5.01	1.54	2.16	11.61
2E	MUD	3	27.2	1.93	7.5	98.4
2E	FFPI	3	77	1.06	68	86
2E	ISO/ALK	3	0.443	1.05	0.401	0.489
2E	LALK/TAL	3	0.205	1.25	0.133	0.316
2E	PRIS/PHY	3	2.0	1.11	1.6	2.5
2E	N/P	3	0.8	1.23	0.6	1.2
2E	P/D	3	7.3	1.05	6.6	8.0
2E	PAH/TOC	3	0.010	1.26	0.006	0.015
2E	TOT/TOC	3	1.7	1.12	1.4	2.1
2E	BA/CR	2	2.9	1.77	1.0	9.0
2E	BA/V	2	1.9	1.97	0.5	7.4

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

---------- STATION=2F ----------

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
2F	N	3	0.03	1.25	0.02	0.05
2F	F	3	0.009	1.20	0.006	0.013
2F	P	3	0.05	1.27	0.03	0.08
2F	D	3	0.004	1.48	0.002	0.008
2F	PAH	3	0.02	1.22	0.02	0.04
2F	PHYT	3	0.009	1.17	0.006	0.012
2F	PRIS	3	0.018	1.25	0.012	0.029
2F	LALK	3	0.32	1.17	0.24	0.44
2F	TALK	3	0.99	1.22	0.68	1.46
2F	TOT	3	3.69	1.49	1.68	8.11
2F	BA	2	175	1.49	80	385
2F	CD	2	0.21	1.02	0.21	0.22
2F	CR	2	41	1.11	34	51
2F	CU	2	12.7	1.25	8.2	19.7
2F	PB	2	7.3	1.09	6.1	8.7
2F	V	2	68	1.08	58	79
2F	ZN	2	53	1.08	46	62
2F	TOC	3	4.29	1.19	3.05	6.03
2F	MUD	3	12.8	1.10	10.6	15.4
2F	FFPI	3	82	1.04	76	88
2F	ISO/ALK	3	0.439	1.05	0.402	0.480
2F	LALK/TAL	3	0.324	1.09	0.275	0.381
2F	PRIS/PHY	3	2.1	1.09	1.8	2.5
2F	N/P	3	0.6	1.18	0.5	0.9
2F	P/D	3	16.4	1.42	8.2	32.7
2F	PAH/TOC	3	0.006	1.05	0.005	0.008
2F	TOT/TOC	3	0.9	1.61	0.3	2.2
2F	BA/CR	2	4.2	1.35	2.4	7.6
2F	BA/V	2	2.6	1.38	1.4	4.9

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=3A

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
3A	N	3	0.13	1.11	0.11	0.16
3A	F	3	0.033	1.07	0.029	0.037
3A	P	3	0.13	1.18	0.09	0.18
3A	D	3	0.019	1.25	0.012	0.028
3A	PAH	3	0.09	1.03	0.09	0.10
3A	PHYT	3	0.016	1.17	0.012	0.022
3A	PRIS	3	0.034	1.22	0.023	0.050
3A	LALK	3	0.43	1.13	0.34	0.54
3A	TALK	3	2.92	1.10	2.41	3.54
3A	TOT	3	7.74	1.28	4.74	12.64
3A	BA	2	286	1.21	198	415
3A	CD	2	0.16	1.02	0.15	0.17
3A	CR	2	49	1.08	44	55
3A	CU	2	19.3	1.19	13.7	27.2
3A	PB	2	7.9	1.30	4.7	13.3
3A	V	2	83	1.08	73	94
3A	ZN	2	61	1.05	55	67
3A	TOC	3	8.65	1.13	6.83	10.94
3A	MUD	3	37.9	1.16	28.2	50.9
3A	FFPI	3	78	1.02	75	81
3A	ISO/ALK	3	0.450	1.00	0.447	0.452
3A	LALK/TAL	3	0.147	1.10	0.122	0.177
3A	PRIS/PHY	3	2.1	1.04	1.9	2.3
3A	N/P	3	1.1	1.16	0.8	1.4
3A	P/D	3	6.8	1.23	4.5	10.3
3A	PAH/TOC	3	0.010	1.12	0.008	0.013
3A	TOT/TOC	3	0.9	1.43	0.4	1.8
3A	BA/CR	2	5.8	1.14	4.5	7.5
3A	BA/V	2	3.5	1.14	2.7	4.4

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=38 --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
38	N	3	0.13	1.20	0.09	0.19
38	F	3	0.032	1.13	0.025	0.040
38	P	3	0.15	1.06	0.14	0.17
38	D	3	0.024	1.15	0.018	0.031
38	PAH	3	0.09	1.15	0.07	0.11
38	PHYT	3	0.030	1.18	0.022	0.042
38	PRIS	3	0.061	1.17	0.045	0.082
38	LALK	3	0.88	1.11	0.72	1.08
38	TALK	3	5.79	1.16	4.35	7.72
38	TOT	3	16.73	1.13	13.14	21.29
38	BA	2	347	1.10	287	419
38	CD	2	0.16	1.08	0.14	0.19
38	CR	2	58	1.01	57	59
38	CU	2	23.8	1.20	16.8	33.8
38	PB	2	8.0	1.31	4.7	13.6
38	V	2	99	1.02	95	103
38	ZN	2	70	1.09	59	82
38	TOC	3	10.22	1.06	9.10	11.47
38	MUD	3	69.0	1.04	63.8	74.5
38	FFPI	3	79	1.02	76	82
38	ISO/ALK	3	0.432	1.01	0.424	0.441
38	LALK/TAL	3	0.152	1.12	0.121	0.192
38	PRIS/PHY	3	2.0	1.09	1.7	2.4
38	N/P	3	0.9	1.25	0.6	1.3
38	P/D	3	6.3	1.21	4.3	9.2
38	PAH/TOC	3	0.008	1.14	0.006	0.011
38	TOT/TOC	3	1.6	1.07	1.4	1.9
38	BA/CR	2	6.0	1.09	5.1	7.2
38	BA/V	2	3.5	1.12	2.8	4.4

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=4A

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
4A	N	3	0.12	1.19	0.09	0.17
4A	F	3	0.024	1.74	0.008	0.071
4A	P	3	0.12	1.27	0.07	0.19
4A	D	3	0.022	1.78	0.007	0.065
4A	PAH	3	0.07	1.27	0.04	0.11
4A	PHYT	3	0.019	1.08	0.017	0.021
4A	PRIS	3	0.041	1.21	0.028	0.059
4A	LALK	3	0.57	1.05	0.51	0.63
4A	TALK	3	3.22	1.03	3.05	3.40
4A	TOT	3	9.65	1.15	7.34	12.68
4A	BA	2	269	1.38	147	493
4A	CD	2	0.12	1.18	0.09	0.16
4A	CR	2	44	1.17	32	60
4A	CU	2	18.9	1.31	11.1	32.2
4A	PB	2	8.6	1.07	7.5	9.8
4A	V	2	78	1.20	54	111
4A	ZN	2	59	1.08	51	69
4A	TOC	3	7.79	1.33	4.42	13.72
4A	MUD	3	30.1	1.05	27.5	33.0
4A	FFPI	3	81	1.01	79	83
4A	ISO/ALK	3	0.412	1.04	0.383	0.443
4A	LALK/TAL	3	0.176	1.04	0.163	0.189
4A	PRIS/PHY	3	2.1	1.15	1.6	2.8
4A	N/P	3	1.0	1.09	0.9	1.2
4A	P/D	3	5.5	1.44	2.7	11.3
4A	PAH/TOC	3	0.009	1.58	0.004	0.022
4A	TOT/TOC	3	1.2	1.32	0.7	2.1
4A	BA/CR	2	6.1	1.18	4.6	8.2
4A	BA/V	2	3.5	1.13	2.7	4.4

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=48

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
48	N	3	0.05	1.23	0.02	0.08
48	F	3	0.010	1.28	0.008	0.018
48	P	3	0.04	1.10	0.04	0.05
48	D	3	0.009	1.40	0.005	0.018
48	PAH	3	0.03	1.41	0.02	0.06
48	PHYT	3	0.008	1.10	0.006	0.010
48	PRIS	3	0.017	1.11	0.014	0.021
48	LALK	3	0.30	1.20	0.21	0.43
48	TALK	3	1.31	1.19	0.93	1.86
48	TOT	3	3.96	1.05	3.57	4.40
48	BA	2	185	1.05	168	203
48	CD	2	0.16	1.07	0.14	0.18
48	CR	2	30	1.06	28	34
48	CU	2	12.5	1.45	6.1	26.0
48	PB	2	5.9	1.02	5.6	6.2
48	V	2	46	1.04	43	49
48	ZN	2	39	1.10	32	47
48	TOC	3	3.39	1.18	2.53	4.55
48	MUD	3	7.6	1.29	4.6	12.4
48	FFPI	3	79	1.06	72	87
48	ISO/ALK	3	0.421	1.03	0.395	0.447
48	LALK/TAL	3	0.229	1.17	0.170	0.309
48	PRIS/PHY	3	2.2	1.08	1.8	2.5
48	N/P	3	1.2	1.14	0.9	1.5
48	P/D	3	4.9	1.43	2.4	9.7
48	PAH/TOC	3	0.008	1.53	0.003	0.019
48	TOT/TOC	3	1.0	1.19	0.7	1.5
48	BA/CR	2	6.1	1.00	6.1	6.1
48	BA/V	2	4.0	1.01	3.9	4.1

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=4C

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
4C	N	3	0.07	1.12	0.06	0.09
4C	F	3	0.020	1.03	0.019	0.021
4C	P	3	0.07	1.15	0.05	0.10
4C	D	3	0.014	1.25	0.009	0.022
4C	PAH	3	0.06	1.15	0.05	0.08
4C	PHYT	3	0.014	1.07	0.012	0.016
4C	PRIS	3	0.028	1.03	0.027	0.030
4C	LALK	3	0.47	1.20	0.33	0.68
4C	TALK	3	2.28	1.15	1.73	3.01
4C	TOT	3	7.50	1.09	6.33	8.90
4C	BA	2	270	1.08	234	311
4C	CD	2	0.07	1.22	0.05	0.10
4C	CR	2	37	1.05	34	41
4C	CU	2	14.0	1.28	8.7	22.5
4C	PB	2	6.3	1.57	2.6	15.3
4C	V	2	59	1.06	52	66
4C	ZN	2	38	1.17	28	52
4C	TOC	3	4.86	1.49	2.21	10.69
4C	MUD	3	10.7	1.37	5.8	19.8
4C	FFPI	3	75	1.03	71	80
4C	ISO/ALK	3	0.415	1.02	0.402	0.429
4C	LALK/TAL	3	0.207	1.17	0.151	0.284
4C	PRIS/PHY	3	2.1	1.10	1.7	2.5
4C	N/P	3	1.0	1.13	0.8	1.3
4C	P/D	3	5.2	1.33	3.0	9.0
4C	PAH/TOC	3	0.009	1.26	0.006	0.015
4C	TOT/TOC	3	1.2	1.23	0.8	1.8
4C	BA/CR	2	7.3	1.13	5.7	9.2
4C	BA/V	2	4.6	1.01	4.5	4.7

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

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---------------------------------------------------------- STATION=5G ----------------------------------------------------------

 STATION     TYPE OF           # NONMISSING     GEOMETRIC      % STD ERR OF     LOWER 95% CONF.     UPPER 95% CONF.
             CONCENTRATION        VALUES           MEAN          GEOM. MEAN      LIMIT FOR G.M.      LIMIT FOR G.M.

   5G          N                    3            0.08            1.23             0.06                0.13
   5G          F                    3            0.014           1.18             0.010               0.019
   5G          P                    3            0.07            1.36             0.04                0.13
   5G          D                    3            0.009           1.49             0.004               0.019
   5G          PAH                  3            0.07            1.13             0.06                0.09
   5G          PHYT                 3            0.017           1.17             0.012               0.023
   5G          PRIS                 3            0.037           1.25             0.024               0.057
   5G          LALK                 3            0.47            1.27             0.30                0.74
   5G          TALK                 3            2.24            1.15             1.70                2.96
   5G          TOT                  3            7.18            1.23             4.75                10.85
   5G          BA                   2            271             1.05             246                 298
   5G          CD                   2            0.10            1.02             0.09                0.10
   5G          CR                   2            35              1.03             33                  37
   5G          CU                   2            10.9            1.03             10.3                11.4
   5G          PB                   2            6.7             1.10             5.6                 8.0
   5G          V                    2            61              1.00             61                  61
   5G          ZN                   2            43              1.09             36                  51
   5G          TOC                  3            5.60            1.14             4.36                7.19
   5G          MUD                  3            15.5            1.20             10.9                22.1
   5G          FFPI                 3            71              1.04             66                  77
   5G          ISO/ALK              3            0.445           1.02             0.427               0.465
   5G          LALK/TAL             3            0.209           1.10             0.173               0.252
   5G          PRIS/PHY             3            2.2             1.07             1.9                 2.5
   5G          N/P                  3            1.2             1.11             0.9                 1.4
   5G          P/D                  3            8.2             1.24             5.4                 12.5
   5G          PAH/TOC              3            0.015           1.31             0.009               0.025
   5G          TOT/TOC              3            1.5             1.40             0.8                 2.9
   5G          BA/CR                2            7.7             1.08             6.6                 8.9
   5G          BA/V                 2            4.4             1.05             4.0                 4.9
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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=5A --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
5A	N	3	0.21	1.19	0.15	0.29
5A	F	3	0.031	1.18	0.023	0.044
5A	P	3	0.14	1.35	0.08	0.26
5A	D	3	0.024	1.22	0.016	0.035
5A	PAH	3	0.13	1.13	0.10	0.16
5A	PHYT	3	0.031	1.18	0.022	0.043
5A	PRIS	3	0.060	1.19	0.042	0.085
5A	LALK	3	0.78	1.22	0.53	1.17
5A	TALK	3	4.79	1.13	3.78	6.07
5A	TOT	3	12.19	1.08	10.48	14.18
5A	BA	2	413	1.33	236	724
5A	CD	2	0.22	1.01	0.21	0.22
5A	CR	2	51	1.06	45	58
5A	CU	2	18.8	1.09	15.7	22.4
5A	PB	2	8.7	1.05	8.0	9.5
5A	V	2	83	1.15	63	109
5A	ZN	2	63	1.04	58	68
5A	TOC	3	9.57	1.23	6.33	14.48
5A	MUD	3	53.1	1.17	38.9	72.5
5A	FFPI	3	76	1.03	73	80
5A	ISO/ALK	3	0.484	1.05	0.443	0.529
5A	LALK/TAL	3	0.164	1.11	0.133	0.201
5A	PRIS/PHY	3	2.0	1.09	1.8	2.3
5A	N/P	3	1.4	1.14	1.1	1.8
5A	P/D	3	6.0	1.33	3.4	10.6
5A	PAH/TOC	3	0.013	1.20	0.009	0.019
5A	TOT/TOC	3	1.3	1.23	0.9	1.9
5A	BA/CR	2	8.1	1.25	5.2	12.5
5A	BA/V	2	5.0	1.16	3.7	6.8

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              GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
                        AT EACH MARINE STATION IN THE BEAUFORT SEA

                                  BULK SEDIMENT SAMPLE DATA

------------------------------------------------------- STATION=58 -------------------------------------------------------

 STATION    TYPE OF          # NONMISSING   GEOMETRIC    % STD ERR OF   LOWER 95% CONF.   UPPER 95% CONF.
            CONCENTRATION       VALUES        MEAN        GEOM. MEAN    LIMIT FOR G.M.    LIMIT FOR G.M.

   58         N                   3          0.32           1.25          0.21              0.49
   58         F                   3          0.085          1.13          0.066             0.109
   58         P                   3          0.27           1.15          0.21              0.35
   58         D                   3          0.084          1.02          0.082             0.087
   58         PAH                 3          0.18           1.48          0.08              0.37
   58         PHYT                3          0.026          2.54          0.004             0.160
   58         PRIS                3          0.047          2.18          0.010             0.214
   58         LALK                3          0.67           1.58          0.28              1.59
   58         TALK                3          3.06           2.00          0.78              11.93
   58         TOT                 3          12.24          2.10          2.85              52.63
   58         BA                  2          321            1.87          118               871
   58         CD                  2          0.07           1.87          0.02              0.25
   58         CR                  2          39             2.25          8                 190
   58         CU                  2          12.4           2.53          2.0               78.2
   58         PB                  2          8.2            2.18          1.8               38.0
   58         V                   2          70             2.14          16                311
   58         ZN                  2          46             2.50          8                 279
   58         TOC                 3          5.22           1.62          2.03              13.39
   58         MUD                 3          21.8           2.65          3.2               148.0
   58         FFPI                3          80             1.05          72                88
   58         ISO/ALK             3          0.501          1.10          0.416             0.604
   58         LALK/TAL            3          0.219          1.29          0.133             0.359
   58         PRIS/PHY            3          1.8            1.25          1.2               2.8
   58         N/P                 3          1.2            1.17          0.9               1.6
   58         P/D                 3          4.2            1.15          3.2               5.5
   58         PAH/TOC             3          0.035          1.66          0.013             0.096
   58         TOT/TOC             3          2.4            1.26          1.5               3.9
   58         BA/CR               2          8.3            1.35          4.6               15.0
   58         BA/V                2          4.6            1.28          2.8               7.5
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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES
AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=5D --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
5D	N	3	0.27	1.18	0.19	0.37
5D	F	3	0.044	1.07	0.038	0.051
5D	P	3	0.22	1.34	0.12	0.39
5D	D	3	0.051	1.21	0.035	0.075
5D	PAH	3	0.17	1.16	0.13	0.23
5D	PHYT	3	0.033	1.04	0.031	0.036
5D	PRIS	3	0.062	1.16	0.047	0.083
5D	LALK	3	0.96	1.06	0.85	1.07
5D	TALK	3	8.85	1.07	7.79	10.06
5D	TOT	3	29.34	1.07	25.62	33.58
5D	BA	2	128	2.91	16	1039
5D	CD	2	0.25	1.14	0.19	0.33
5D	CR	2	52	1.06	47	58
5D	CU	2	21.1	1.18	15.3	29.1
5D	PB	2	8.4	1.17	6.2	11.5
5D	V	2	85	1.08	74	99
5D	ZN	2	77	1.01	76	78
5D	TOC	3	17.83	1.28	11.02	28.85
5D	MUD	3	67.6	1.05	61.4	74.4
5D	FFPI	3	77	1.02	73	81
5D	ISO/ALK	3	0.435	1.04	0.404	0.469
5D	LALK/TAL	3	0.108	1.01	0.106	0.110
5D	PRIS/PHY	3	1.9	1.20	1.3	2.7
5D	N/P	3	1.2	1.16	0.9	1.6
5D	P/D	3	4.3	1.19	3.1	6.0
5D	PAH/TOC	3	0.010	1.11	0.008	0.012
5D	TOT/TOC	3	1.6	1.20	1.2	2.3
5D	BA/CR	2	2.5	2.78	0.3	17.9
5D	BA/V	2	1.5	2.70	0.2	10.5

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR RIABLES
AT EACH MARINE STATION IN THE BEAUFORT S

BULK SEDIMENT SAMPLE DATA

STATION=5E

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
5E	N	3	0.28	1.38	0.15	0.50
5E	F	3	0.055	1.24	0.036	0.083
5E	P	3	0.24	1.19	0.17	0.33
5E	D	3	0.047	1.12	0.037	0.058
5E	PAH	3	0.17	1.50	0.08	0.38
5E	PHYT	3	0.055	1.71	0.019	0.157
5E	PRIS	3	0.107	1.64	0.041	0.282
5E	LALK	3	1.16	1.30	0.61	2.22
5E	TALK	3	5.94	1.60	2.35	15.00
5E	TOT	3	28.82	1.98	7.73	107.48
5E	BA	2	393	1.20	277	560
5E	CD	2	0.12	1.67	0.04	0.32
5E	CR	2	50	1.60	18	134
5E	CU	2	17.6	1.61	7.0	44.6
5E	PB	2	9.8	1.75	3.3	29.3
5E	V	2	92	1.59	37	228
5E	ZN	2	60	1.79	19	189
5E	TOC	3	8.12	1.18	5.88	11.23
5E	MUD	3	25.3	1.49	11.7	55.1
5E	FFPI	3	77	1.04	71	83
5E	ISO/ALK	3	0.491	1.04	0.455	0.531
5E	LALK/TAL	3	0.195	1.10	0.146	0.260
5E	PRIS/PHY	3	2.0	1.17	1.4	2.7
5E	N/P	3	1.2	1.14	0.9	1.5
5E	P/D	3	5.0	1.07	4.5	5.7
5E	PAH/TOC	3	0.030	1.27	0.019	0.047
5E	TOT/TOC	3	5.0	1.42	2.5	10.0
5E	BA/CR	2	7.9	1.39	4.2	15.0
5E	BA/V	2	4.3	1.33	2.5	7.5

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=5F --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
5F	N	3	0.14	1.51	0.06	0.31
5F	F	3	0.025	1.52	0.011	0.058
5F	P	3	0.12	1.50	0.05	0.27
5F	D	3	0.028	1.34	0.016	0.050
5F	PAH	3	0.13	1.43	0.06	0.28
5F	PHYT	3	0.027	1.20	0.019	0.039
5F	PRIS	3	0.054	1.37	0.029	0.100
5F	LALK	3	0.96	1.28	0.59	1.54
5F	TALK	3	7.22	1.52	3.16	16.49
5F	TOT	3	4.34	2.17	0.95	19.89
5F	BA	2	304	1.09	258	357
5F	CD	2	0.18	1.18	0.13	0.24
5F	CR	2	42	1.17	31	57
5F	CU	2	13.4	1.35	7.5	24.1
5F	PB	2	7.2	1.07	6.3	8.3
5F	V	2	66	1.21	46	95
5F	ZN	2	58	1.10	47	70
5F	TOC	3	11.60	1.26	7.33	18.36
5F	MUD	3	51.9	1.12	41.8	64.4
5F	FFPI	3	71	1.05	65	77
5F	ISO/ALK	3	0.427	1.02	0.414	0.440
5F	LALK/TAL	3	0.132	1.20	0.092	0.189
5F	PRIS/PHY	3	2.0	1.15	1.5	2.6
5F	N/P	3	1.1	1.18	0.8	1.6
5F	P/D	3	4.3	1.24	2.8	6.6
5F	PAH/TOC	3	0.011	1.18	0.008	0.016
5F	TOT/TOC	3	0.4	2.55	0.1	2.4
5F	BA/CR	2	7.3	1.06	6.3	8.4
5F	BA/V	2	4.6	1.11	3.8	5.7

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

--- STATION=5H ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
5H	N	2	0.05	1.12	0.04	0.07
5H	F	2	0.011	1.15	0.009	0.015
5H	P	2	0.06	1.08	0.05	0.07
5H	D	2	0.007	1.03	0.007	0.008
5H	PAH	2	0.05	1.17	0.04	0.07
5H	PHYT	2	0.015	1.01	0.015	0.015
5H	PRIS	2	0.031	1.08	0.028	0.035
5H	LALK	2	0.60	1.20	0.41	0.88
5H	TALK	2	3.50	1.09	2.98	4.11
5H	TOT	2	9.56	1.10	7.91	11.55
5H	BA	0				
5H	CD	0				
5H	CR	0				
5H	CU	0				
5H	PB	0				
5H	V	0				
5H	ZN	0				
5H	TOC	2	9.21	1.46	4.40	19.27
5H	MUD	2	18.1	1.16	13.5	24.2
5H	FFPI	2	70	1.07	62	80
5H	ISO/ALK	2	0.387	1.04	0.358	0.418
5H	LALK/TAL	2	0.171	1.31	0.101	0.289
5H	PRIS/PHY	2	2.1	1.06	1.9	2.4
5H	N/P	2	0.9	1.04	0.8	1.0
5H	P/D	2	7.6	1.05	7.0	8.3
5H	PAH/TOC	2	0.006	1.71	0.002	0.016
5H	TOT/TOC	2	1.0	1.61	0.4	2.6
5H	BA/CR	0				
5H	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

---------- STATION=50 ----------

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
50	N	2	0.04	1.53	0.02	0.09
50	F	2	0.011	1.34	0.006	0.019
50	P	2	0.03	1.37	0.02	0.06
50	D	2	0.006	1.89	0.002	0.022
50	PAH	2	0.03	1.01	0.03	0.03
50	PHYT	2	0.008	1.02	0.008	0.008
50	PRIS	2	0.017	1.10	0.014	0.020
50	LALK	2	0.27	1.06	0.24	0.30
50	TALK	2	1.36	1.01	1.34	1.38
50	TOT	2	2.69	1.15	2.03	3.56
50	BA	0				
50	CD	0				
50	CR	0				
50	CU	0				
50	PB	0				
50	V	0				
50	ZN	0				
50	TOC	2	3.37	1.15	2.55	4.46
50	MUD	2	6.6	1.40	3.4	12.7
50	FFPI	2	72	1.12	57	90
50	ISO/ALK	2	0.395	1.03	0.376	0.416
50	LALK/TAL	2	0.196	1.06	0.174	0.222
50	PRIS/PHY	2	2.2	1.08	1.9	2.5
50	N/P	2	1.1	1.11	0.9	1.4
50	P/D	2	5.5	1.38	2.9	10.4
50	PAH/TOC	2	0.009	1.14	0.007	0.012
50	TOT/TOC	2	0.8	1.00	0.8	0.8
50	BA/CR	0				
50	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=51

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
51	N	3	0.03	1.32	0.02	0.05
51	F	3	0.007	1.28	0.004	0.011
51	P	3	0.03	1.33	0.02	0.06
51	D	3	0.006	1.75	0.002	0.018
51	PAH	3	0.03	1.26	0.02	0.04
51	PHYT	3	0.004	1.29	0.003	0.007
51	PRIS	3	0.011	1.33	0.006	0.019
51	LALK	3	0.20	1.26	0.13	0.32
51	TALK	3	0.78	1.27	0.49	1.25
51	TOT	3	1.96	1.58	0.82	4.65
51	BA	2	209	1.13	164	265
51	CD	2	0.11	1.32	0.06	0.19
51	CR	2	22	1.04	20	23
51	CU	2	7.6	1.21	5.3	11.1
51	PB	2	6.3	1.28	3.9	10.2
51	V	2	42	1.07	37	48
51	ZN	2	37	1.08	33	41
51	TOC	3	3.51	1.18	2.53	4.87
51	MUD	3	3.3	1.91	0.9	11.7
51	FFPI	3	73	1.04	67	78
51	ISO/ALK	3	0.333	1.23	0.221	0.501
51	LALK/TAL	3	0.257	1.05	0.232	0.284
51	PRIS/PHY	3	2.1	1.04	1.9	2.3
51	N/P	3	0.9	1.11	0.7	1.1
51	P/D	3	5.2	1.49	2.4	11.3
51	PAH/TOC	3	0.008	1.14	0.006	0.010
51	TOT/TOC	3	0.5	1.35	0.3	1.0
51	BA/CR	2	9.6	1.09	8.2	11.3
51	BA/V	2	5.0	1.06	4.4	5.6

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=55

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
55	N	3	0.06	1.71	0.02	0.18
55	F	3	0.021	1.35	0.012	0.038
55	P	3	0.07	1.67	0.03	0.19
55	D	3	0.013	1.75	0.004	0.039
55	PAH	3	0.05	1.62	0.02	0.13
55	PHYT	3	0.016	1.33	0.009	0.027
55	PRIS	3	0.032	1.35	0.018	0.057
55	LALK	3	0.44	1.24	0.29	0.67
55	TALK	3	2.42	1.21	1.68	3.50
55	TOT	3	7.25	1.35	4.00	13.15
55	BA	2	257	1.14	197	335
55	CD	2	0.18	1.24	0.12	0.27
55	CR	2	37	1.08	32	43
55	CU	2	13.5	1.16	10.0	18.2
55	PB	2	6.6	1.06	5.8	7.4
55	V	2	63	1.08	54	74
55	ZN	2	51	1.02	49	53
55	TOC	3	5.71	1.26	3.64	8.94
55	MUD	3	21.2	1.37	11.5	39.0
55	FFPI	3	77	1.06	68	88
55	ISO/ALK	3	0.435	1.12	0.349	0.542
55	LALK/TAL	3	0.183	1.03	0.174	0.192
55	PRIS/PHY	3	2.0	1.03	1.9	2.2
55	N/P	3	0.9	1.18	0.7	1.3
55	P/D	3	5.3	1.06	4.7	6.0
55	PAH/TOC	3	0.010	1.45	0.005	0.020
55	TOT/TOC	3	1.4	1.21	1.0	2.1
55	BA/CR	2	7.0	1.06	6.2	7.9
55	BA/V	2	4.1	1.05	3.7	4.5

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=510

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
510	N	3	0.08	1.35	0.04	0.14
510	F	3	0.023	1.47	0.011	0.048
510	P	3	0.08	1.41	0.04	0.16
510	D	3	0.018	1.40	0.009	0.035
510	PAH	3	0.06	1.11	0.05	0.08
510	PHYT	3	0.015	1.12	0.012	0.019
510	PRIS	3	0.034	1.26	0.022	0.053
510	LALK	3	0.46	1.30	0.27	0.77
510	TALK	3	2.81	1.15	2.15	3.69
510	TOT	3	9.85	1.19	6.98	13.90
510	BA	2	137	2.08	33	578
510	CD	2	0.24	1.02	0.23	0.25
510	CR	2	39	1.02	37	40
510	CU	2	14.1	1.22	9.6	20.7
510	PB	2	5.7	1.04	5.3	6.1
510	V	2	64	1.03	60	67
510	ZN	2	53	1.10	44	64
510	TOC	3	7.20	1.23	4.82	10.76
510	MUD	3	22.0	1.22	14.9	32.6
510	FFPI	3	75	1.06	66	84
510	ISO/ALK	3	0.450	1.03	0.421	0.481
510	LALK/TAL	3	0.163	1.14	0.126	0.210
510	PRIS/PHY	3	2.2	1.16	1.7	2.9
510	N/P	3	1.0	1.14	0.8	1.3
510	P/D	3	4.4	1.09	3.7	5.3
510	PAH/TOC	3	0.007	1.41	0.004	0.014
510	TOT/TOC	3	1.1	1.32	0.6	1.9
510	BA/CR	2	3.5	2.12	0.8	15.4
510	BA/V	2	2.2	2.02	0.5	8.6

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=52

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
52	N	1	0.01			
52	F	1	0.002			
52	P	1	0.02			
52	D	1	0.008			
52	PAH	1	0.01			
52	PHYT	1	0.003			
52	PRIS	1	0.008			
52	LALK	1	0.27			
52	TALK	1	0.88			
52	TOT	1	2.89			
52	BA	1	188			
52	CD	1	0.11			
52	CR	1	22			
52	CU	1	8.9			
52	PB	1	5.2			
52	V	1	44			
52	ZN	1	71			
52	TOC	1	2.82			
52	MUD	1	3.5			
52	FFPI	1	75			
52	ISO/ALK	1	0.389			
52	LALK/TAL	1	0.392			
52	PRIS/PHY	1	2.4			
52	N/P	1	0.8			
52	P/D	1	3.8			
52	PAH/TOC	1	0.008			
52	TOT/TOC	1	1.4			
52	BA/CR	1	8.3			
52	BA/V	1	4.2			

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

--- STATION=6A ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF LIMIT FOR G.M.
6A	N	3	0.45	1.05	0.41	0.50
6A	F	3	0.116	1.13	0.092	0.147
6A	P	3	0.31	1.15	0.23	0.40
6A	D	3	0.081	1.28	0.050	0.133
6A	PAH	3	0.21	1.27	0.13	0.33
6A	PHYT	3	0.046	1.08	0.039	0.054
6A	PRIS	3	0.101	1.15	0.076	0.134
6A	LALK	3	1.47	1.29	0.88	2.43
6A	TALK	3	9.58	1.08	8.26	11.11
6A	TOT	3	41.32	1.52	18.12	94.23
6A	BA	2	380	1.01	370	390
6A	CD	2	0.15	1.24	0.10	0.23
6A	CR	2	60	1.00	59	60
6A	CU	2	22.9	1.03	21.8	24.1
6A	PB	2	11.3	1.31	6.6	19.3
6A	V	2	95	1.04	88	104
6A	ZN	2	79	1.12	63	99
6A	TOC	3	11.25	1.11	9.24	13.70
6A	MUD	3	72.9	1.06	64.8	82.0
6A	FFPI	3	81	1.03	78	85
6A	ISO/ALK	3	0.490	1.01	0.476	0.505
6A	LALK/TAL	3	0.153	1.38	0.080	0.292
6A	PRIS/PHY	3	2.2	1.15	1.7	2.9
6A	N/P	3	1.5	1.17	1.1	2.0
6A	P/D	3	3.8	1.16	2.8	5.0
6A	PAH/TOC	3	0.017	1.12	0.014	0.022
6A	TOT/TOC	3	3.4	1.72	1.2	10.0
6A	BA/CR	2	6.4	1.02	6.2	6.6
6A	BA/V	2	4.0	1.05	3.6	4.4

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=6B

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6B	N	3	1.97	1.42	0.99	3.93
6B	F	3	0.412	1.37	0.224	0.758
6B	P	3	0.90	1.55	0.38	2.13
6B	D	3	0.177	1.48	0.084	0.370
6B	PAH	3	0.64	1.42	0.32	1.28
6B	PHYT	3	0.107	1.78	0.035	0.323
6B	PRIS	3	0.234	1.80	0.093	0.591
6B	LALK	3	2.50	1.83	0.96	6.53
6B	TALK	3	19.44	1.37	10.43	36.22
6B	TOT	3	51.80	1.26	32.98	81.38
6B	BA	2	609	1.22	411	901
6B	CD	2	0.24	1.21	0.16	0.34
6B	CR	2	79	1.16	58	106
6B	CU	2	29.2	1.25	18.7	45.6
6B	PB	2	14.4	1.16	10.8	19.2
6B	V	2	128	1.19	91	180
6B	ZN	2	99	1.14	77	127
6B	TOC	3	16.63	1.05	15.03	18.41
6B	MUD	3	83.9	1.03	79.3	88.8
6B	FFPI	3	84	1.01	82	87
6B	ISO/ALK	3	0.552	1.06	0.495	0.616
6B	LALK/TAL	3	0.129	1.22	0.087	0.190
6B	PRIS/PHY	3	2.2	1.10	1.8	2.6
6B	N/P	3	2.2	1.11	1.8	2.7
6B	P/D	3	5.1	1.08	4.3	6.1
6B	PAH/TOC	3	0.038	1.35	0.021	0.069
6B	TOT/TOC	3	3.1	1.20	2.2	4.4
6B	BA/CR	2	7.7	1.05	7.0	8.5
6B	BA/V	2	4.7	1.03	4.5	5.0

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=6C

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6C	N	3	0.32	1.08	0.28	0.37
6C	F	3	0.068	1.32	0.040	0.118
6C	P	3	0.25	1.17	0.18	0.34
6C	D	3	0.055	1.22	0.037	0.081
6C	PAH	3	0.19	1.10	0.16	0.23
6C	PHYT	3	0.034	1.43	0.017	0.070
6C	PRIS	3	0.085	1.34	0.048	0.151
6C	LALK	3	0.95	1.29	0.58	1.57
6C	TALK	3	5.79	1.24	3.78	8.89
6C	TOT	3	28.25	1.61	11.10	71.90
6C	BA	2	403	1.05	367	444
6C	CD	2	0.09	1.47	0.04	0.18
6C	CR	2	65	1.02	62	68
6C	CU	2	21.0	1.04	19.7	22.5
6C	PB	2	10.3	1.26	6.6	16.2
6C	V	2	105	1.11	87	128
6C	ZN	2	76	1.15	58	100
6C	TOC	3	7.32	1.10	6.04	8.88
6C	MUD	3	34.0	1.18	24.5	47.3
6C	FFPI	3	75	1.05	67	83
6C	ISO/ALK	3	0.482	1.02	0.461	0.504
6C	LALK/TAL	3	0.165	1.42	0.082	0.329
6C	PRIS/PHY	3	2.5	1.10	2.1	3.0
6C	N/P	3	1.3	1.15	1.0	1.7
6C	P/D	3	4.5	1.04	4.2	4.9
6C	PAH/TOC	3	0.026	1.04	0.024	0.028
6C	TOT/TOC	3	3.9	1.55	1.6	9.1
6C	BA/CR	2	6.2	1.02	5.9	6.5
6C	BA/V	2	3.8	1.05	3.5	4.2

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=6D

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6D	N	3	0.14	1.57	0.06	0.33
6D	F	3	0.026	1.79	0.008	0.082
6D	P	3	0.10	1.36	0.06	0.18
6D	D	3	0.022	1.42	0.011	0.044
6D	PAH	3	0.08	1.28	0.05	0.13
6D	PHYT	3	0.019	1.45	0.009	0.039
6D	PRIS	3	0.036	1.49	0.017	0.083
6D	LALK	3	0.57	1.66	0.21	1.54
6D	TALK	3	3.13	1.43	1.56	6.31
6D	TOT	3	8.39	1.38	4.46	15.78
6D	BA	2	282	1.00	282	282
6D	CD	2	0.08	1.00	0.08	0.08
6D	CR	2	36	1.06	32	40
6D	CU	2	9.4	1.05	8.6	10.3
6D	PB	2	8.0	1.14	6.2	10.4
6D	V	2	67	1.02	65	70
6D	ZN	2	50	1.09	42	59
6D	TOC	3	4.51	1.16	3.36	6.07
6D	MUD	3	13.6	1.62	5.3	35.0
6D	FFPI	3	78	1.04	72	83
6D	ISO/ALK	3	0.498	1.05	0.454	0.547
6D	LALK/TAL	3	0.182	1.58	0.074	0.444
6D	PRIS/PHY	3	2.0	1.16	1.5	2.6
6D	N/P	3	1.4	1.19	1.0	1.9
6D	P/D	3	4.5	1.06	4.0	5.0
6D	PAH/TOC	3	0.018	1.10	0.015	0.021
6D	TOT/TOC	3	1.9	1.24	1.2	2.8
6D	BA/CR	2	7.8	1.06	7.0	8.7
6D	BA/V	2	4.2	1.02	4.0	4.4

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=6F

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6F	N	3	0.32	1.24	0.21	0.49
6F	F	3	0.084	1.21	0.057	0.122
6F	P	3	0.22	1.38	0.11	0.41
6F	D	3	0.043	1.40	0.022	0.084
6F	PAH	3	0.16	1.32	0.09	0.27
6F	PHYT	3	0.038	1.12	0.030	0.047
6F	PRIS	3	0.077	1.16	0.058	0.103
6F	LALK	3	0.95	1.23	0.63	1.43
6F	TALK	3	6.24	1.15	4.71	8.27
6F	TOT	3	18.31	1.19	12.98	25.85
6F	BA	2	330	1.14	257	423
6F	CD	2	0.12	1.03	0.11	0.13
6F	CR	2	54	1.15	41	72
6F	CU	2	16.4	1.25	10.6	25.4
6F	PB	2	10.6	1.12	8.5	13.1
6F	V	2	92	1.16	68	123
6F	ZN	2	64	1.06	57	72
6F	TOC	3	8.34	1.09	6.99	9.94
6F	MUD	3	46.3	1.14	35.6	60.3
6F	FFPI	3	81	1.00	80	81
6F	ISO/ALK	3	0.480	1.06	0.431	0.535
6F	LALK/TAL	3	0.152	1.13	0.119	0.194
6F	PRIS/PHY	3	2.1	1.08	1.7	2.4
6F	N/P	3	1.5	1.14	1.1	1.9
6F	P/D	3	5.0	1.04	4.6	5.4
6F	PAH/TOC	3	0.017	1.12	0.014	0.022
6F	TOT/TOC	3	2.0	1.07	1.8	2.4
6F	BA/CR	2	6.1	1.01	5.9	6.2
6F	BA/V	2	3.6	1.03	3.4	3.8

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

-- STATION=6G --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
6G	N	2	0.35	1.39	0.18	0.68
6G	F	2	0.072	1.16	0.054	0.096
6G	P	2	0.21	1.31	0.12	0.38
6G	D	2	0.043	1.18	0.031	0.060
6G	PAH	2	0.18	1.57	0.07	0.39
6G	PHYT	2	0.060	1.08	0.054	0.067
6G	PRIS	2	0.088	1.41	0.045	0.172
6G	LALK	2	1.41	1.58	0.58	3.44
6G	TALK	2	14.39	1.44	7.09	29.23
6G	TOT	2	33.64	1.79	10.78	105.17
6G	BA	0				
6G	CD	0				
6G	CR	0				
6G	CU	0				
6G	PB	0				
6G	V	0				
6G	ZN	0				
6G	TOC	2	13.53	1.38	7.44	24.61
6G	MUD	2	77.0	1.03	73.1	81.1
6G	FFPI	2	80	1.03	75	85
6G	ISO/ALK	2	0.470	1.20	0.329	0.670
6G	LALK/TAL	2	0.098	1.10	0.082	0.118
6G	PRIS/PHY	2	1.5	1.33	0.8	2.8
6G	N/P	2	1.7	1.06	1.5	1.9
6G	P/D	2	4.9	1.11	4.0	6.0
6G	PAH/TOC	2	0.011	1.24	0.007	0.017
6G	TOT/TOC	2	2.1	1.60	0.8	5.1
6G	BA/CR	0				
6G	BA/V	0				

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=7A

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7A	N	3	0.49	1.08	0.42	0.57
7A	F	3	0.113	1.30	0.068	0.189
7A	P	3	0.28	1.22	0.19	0.42
7A	D	3	0.067	1.33	0.038	0.118
7A	PAH	3	0.18	1.18	0.13	0.25
7A	PHYT	3	0.044	1.28	0.028	0.069
7A	PRIS	3	0.093	1.13	0.073	0.118
7A	LALK	3	1.12	1.08	1.00	1.25
7A	TALK	3	8.41	1.31	4.94	14.31
7A	TOT	3	23.75	1.09	20.10	28.07
7A	BA	2	704	1.01	692	716
7A	CD	2	0.10	1.08	0.09	0.12
7A	CR	2	67	1.06	59	76
7A	CU	2	14.1	1.03	13.3	15.0
7A	PB	2	10.7	1.27	6.7	17.3
7A	V	2	88	1.01	86	89
7A	ZN	2	80	1.07	70	92
7A	TOC	3	10.12	1.05	9.21	11.11
7A	MUD	3	61.6	1.07	53.5	71.0
7A	FFPI	3	82	1.04	76	88
7A	ISO/ALK	3	0.531	1.02	0.513	0.549
7A	LALK/TAL	3	0.133	1.35	0.073	0.240
7A	PRIS/PHY	3	2.1	1.11	1.7	2.6
7A	N/P	3	1.7	1.13	1.4	2.2
7A	P/D	3	4.7	1.14	3.6	6.0
7A	PAH/TOC	3	0.018	1.18	0.013	0.025
7A	TOT/TOC	3	2.3	1.14	1.8	3.0
7A	BA/CR	2	10.5	1.06	9.5	11.7
7A	BA/V	2	8.0	1.00	8.0	8.1

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

--- STATION=7B ---

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7B	N	3	0.18	1.27	0.11	0.29
7B	F	3	0.033	1.41	0.017	0.064
7B	P	3	0.12	1.33	0.07	0.21
7B	D	3	0.028	1.33	0.015	0.048
7B	PAH	3	0.10	1.28	0.06	0.16
7B	PHYT	3	0.022	1.33	0.013	0.039
7B	PRIS	3	0.050	1.20	0.035	0.072
7B	LALK	3	0.78	1.30	0.45	1.28
7B	TALK	3	4.21	1.27	2.65	6.70
7B	TOT	3	10.85	1.29	6.64	17.75
7B	BA	2	470	1.03	443	498
7B	CD	2	0.06	1.03	0.06	0.06
7B	CR	2	51	1.04	47	55
7B	CU	2	8.3	1.18	6.2	11.1
7B	PB	2	8.2	1.23	5.4	12.2
7B	V	2	63	1.08	54	73
7B	ZN	2	50	1.01	50	51
7B	TOC	3	5.27	1.03	4.95	5.61
7B	MUD	3	11.8	1.28	7.3	19.0
7B	FFPI	3	78	1.01	77	79
7B	ISO/ALK	3	0.461	1.06	0.423	0.503
7B	LALK/TAL	3	0.179	1.38	0.099	0.328
7B	PRIS/PHY	3	2.3	1.11	1.8	2.8
7B	N/P	3	1.5	1.15	1.1	2.0
7B	P/D	3	4.6	1.00	4.6	4.7
7B	PAH/TOC	3	0.019	1.24	0.012	0.029
7B	TOT/TOC	3	2.1	1.28	1.3	3.2
7B	BA/CR	2	9.2	1.01	9.0	9.4
7B	BA/V	2	7.5	1.11	6.1	9.3

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=7C

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7C	N	3	0.66	1.03	0.63	0.70
7C	F	3	0.121	1.14	0.094	0.157
7C	P	3	0.46	1.15	0.35	0.61
7C	D	3	0.099	1.07	0.087	0.112
7C	PAH	3	0.21	1.80	0.08	0.52
7C	PHYT	3	0.056	1.17	0.041	0.075
7C	PRIS	3	0.121	1.16	0.090	0.163
7C	LALK	3	1.54	1.06	1.29	1.84
7C	TALK	3	9.93	1.17	7.35	13.43
7C	TOT	3	29.72	1.13	23.59	37.45
7C	BA	2	533	1.07	471	603
7C	CD	2	0.14	1.12	0.11	0.18
7C	CR	2	81	1.04	74	88
7C	CU	2	28.0	1.04	26.1	30.0
7C	PB	2	17.2	1.17	12.6	23.5
7C	V	2	143	1.02	138	147
7C	ZN	2	102	1.05	92	113
7C	TOC	3	10.91	1.21	7.49	15.91
7C	MUD	3	86.5	1.01	84.3	88.8
7C	FFPI	3	84	1.03	79	89
7C	ISO/ALK	3	0.458	1.02	0.438	0.479
7C	LALK/TAL	3	0.155	1.22	0.106	0.228
7C	PRIS/PHY	3	2.2	1.01	2.1	2.2
7C	N/P	3	1.4	1.12	1.1	1.8
7C	P/D	3	4.7	1.10	3.9	5.7
7C	PAH/TOC	3	0.019	1.77	0.006	0.058
7C	TOT/TOC	3	2.7	1.33	1.6	4.8
7C	BA/CR	2	6.6	1.11	5.3	8.1
7C	BA/V	2	3.7	1.05	3.4	4.1

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=7D

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7D	N	2	0.17	1.80	0.07	0.41
7D	F	2	0.033	2.15	0.007	0.148
7D	P	2	0.15	2.10	0.03	0.82
7D	D	2	0.033	1.75	0.011	0.098
7D	PAH	2	0.11	1.50	0.05	0.24
7D	PHYT	2	0.029	1.98	0.008	0.110
7D	PRIS	2	0.069	1.98	0.018	0.259
7D	LALK	2	0.79	2.17	0.17	3.58
7D	TALK	2	5.82	2.22	1.18	28.78
7D	TOT	2	24.85	1.38	13.20	46.79
7D	BA	0				
7D	CD	0				
7D	CR	0				
7D	CU	0				
7D	PB	0				
7D	V	0				
7D	ZN	0				
7D	TOC	2	6.36	1.54	2.74	14.78
7D	MUD	2	25.0	1.59	10.0	62.5
7D	FFPI	2	78	1.05	71	85
7D	ISO/ALK	2	0.459	1.01	0.451	0.467
7D	LALK/TAL	2	0.140	1.02	0.134	0.147
7D	PRIS/PHY	2	2.4	1.01	2.3	2.4
7D	N/P	2	1.1	1.32	0.7	1.9
7D	P/D	2	4.5	1.20	3.1	6.3
7D	PAH/TOC	2	0.018	1.03	0.017	0.019
7D	TOT/TOC	2	3.9	1.11	3.2	4.8
7D	BA/CR	0				
7D	BA/V	0				

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GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

STATION=7E

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7E	N	3	0.82	1.06	0.73	0.93
7E	F	3	0.093	1.15	0.071	0.122
7E	P	3	0.41	1.11	0.33	0.50
7E	D	3	0.075	1.16	0.056	0.101
7E	PAH	3	0.27	1.07	0.24	0.31
7E	PHYT	3	0.053	1.16	0.039	0.071
7E	PRIS	3	0.172	1.10	0.142	0.207
7E	LALK	3	1.56	1.05	1.42	1.73
7E	TALK	3	9.80	1.11	7.94	12.09
7E	TOT	3	12.98	2.24	2.66	63.33
7E	BA	2	582	1.04	540	628
7E	CD	2	0.14	1.09	0.11	0.18
7E	CR	2	62	1.00	62	62
7E	CU	2	17.7	1.06	15.9	19.7
7E	PB	2	10.7	1.29	6.5	17.6
7E	V	2	92	1.00	91	93
7E	ZN	2	73	1.03	69	78
7E	TOC	3	17.41	1.19	12.31	24.64
7E	MUD	3	69.3	1.06	61.7	77.9
7E	FFPI	3	84	1.02	81	87
7E	ISO/ALK	3	0.607	1.01	0.594	0.620
7E	LALK/TAL	3	0.160	1.17	0.117	0.217
7E	PRIS/PHY	3	3.3	1.08	2.8	3.8
7E	N/P	3	2.0	1.09	1.7	2.4
7E	P/D	3	5.4	1.22	3.7	8.1
7E	PAH/TOC	3	0.015	1.19	0.011	0.022
7E	TOT/TOC	3	0.7	2.28	0.1	3.6
7E	BA/CR	2	9.4	1.04	8.7	10.1
7E	BA/V	2	6.3	1.03	5.9	6.8

GEOMETRIC MEANS AND 95% CONFIDENCE INTERVALS FOR ALL VARIABLES AT EACH MARINE STATION IN THE BEAUFORT SEA

BULK SEDIMENT SAMPLE DATA

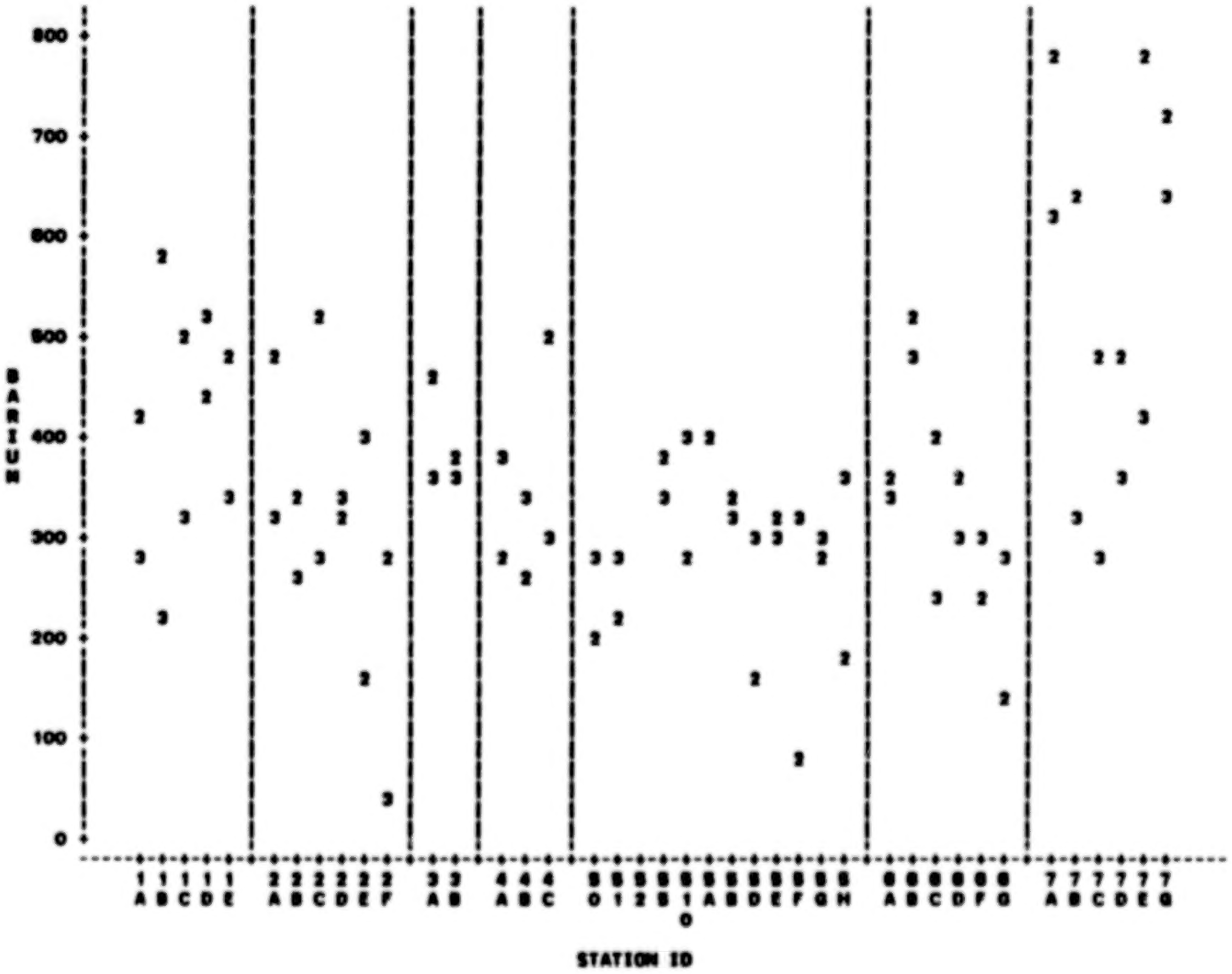
-- STATION=7G --

STATION	TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
7G	N	3	0.58	1.44	0.28	1.18
7G	F	3	0.029	1.66	0.011	0.077
7G	P	3	0.37	1.20	0.26	0.53
7G	D	3	0.046	1.08	0.039	0.053
7G	PAH	3	0.20	1.09	0.17	0.24
7G	PHYT	3	0.050	1.09	0.042	0.058
7G	PRIS	3	0.201	1.04	0.187	0.216
7G	LALK	3	1.15	1.08	0.99	1.35
7G	TALK	3	5.94	1.26	3.81	9.27
7G	TOT	3	20.81	1.09	17.60	24.60
7G	BA	2	621	1.02	593	650
7G	CD	2	0.08	1.30	0.05	0.14
7G	CR	2	43	1.04	40	47
7G	CU	2	11.0	1.07	9.6	12.7
7G	PB	2	12.4	1.12	9.9	15.5
7G	V	2	68	1.00	68	68
7G	ZN	2	58	1.08	49	68
7G	TOC	3	13.04	1.38	6.92	24.58
7G	MUD	3	22.9	1.57	9.5	55.4
7G	FFPI	3	84	1.03	79	89
7G	ISO/ALK	3	0.794	1.08	0.684	0.921
7G	LALK/TAL	3	0.194	1.26	0.124	0.304
7G	PRIS/PHY	3	4.1	1.12	3.2	5.1
7G	N/P	3	1.5	1.32	0.9	2.7
7G	P/D	3	8.0	1.20	5.6	11.6
7G	PAH/TOC	3	0.014	1.60	0.006	0.035
7G	TOT/TOC	3	1.3	1.78	0.4	4.2
7G	BA/CR	2	14.4	1.02	13.9	15.0
7G	BA/V	2	9.1	1.02	8.7	9.6

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: FINE

PLOT OF BA*STATID SYMBOL IS VALUE OF YEAR



NOTE: 1 OBS HIDDEN

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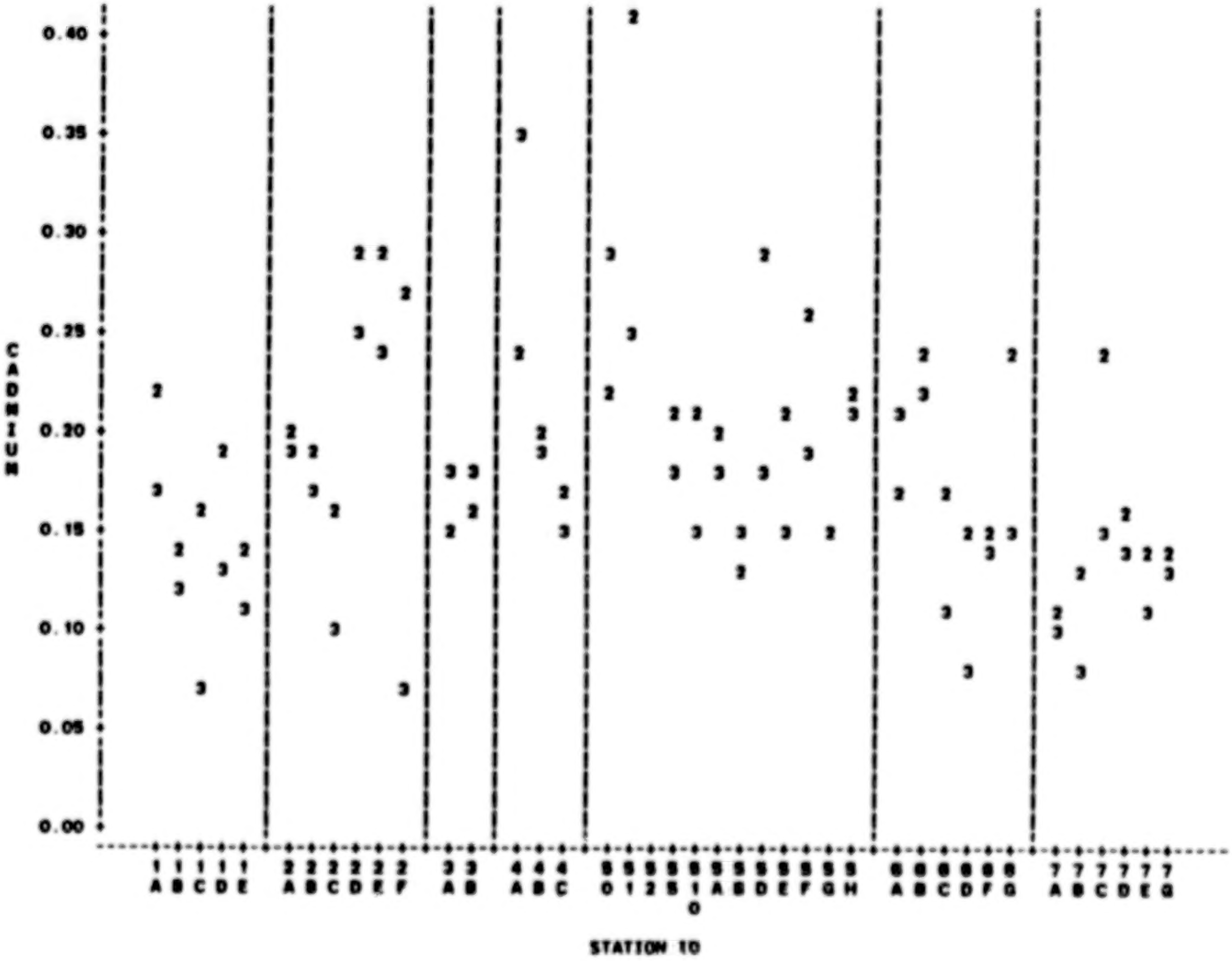
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: FINE

PLOT OF CD*STATID   SYMBOL IS VALUE OF YEAR

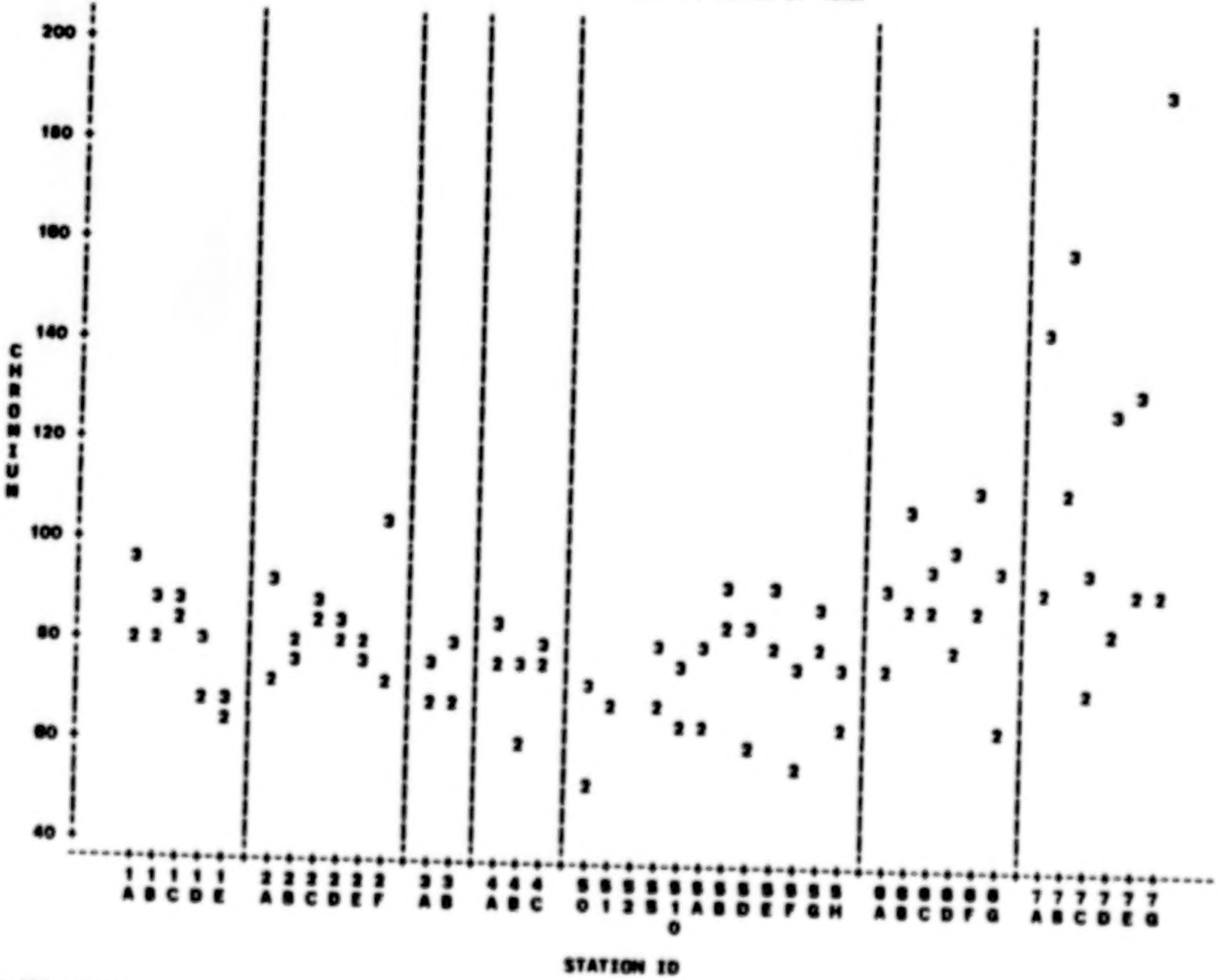


NOTE: 1 OBS HIDDEN

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: FINE

PLOT OF CR*STATID SYMBOL IS VALUE OF YEAR



NOTE: 1 OBS HIDDEN

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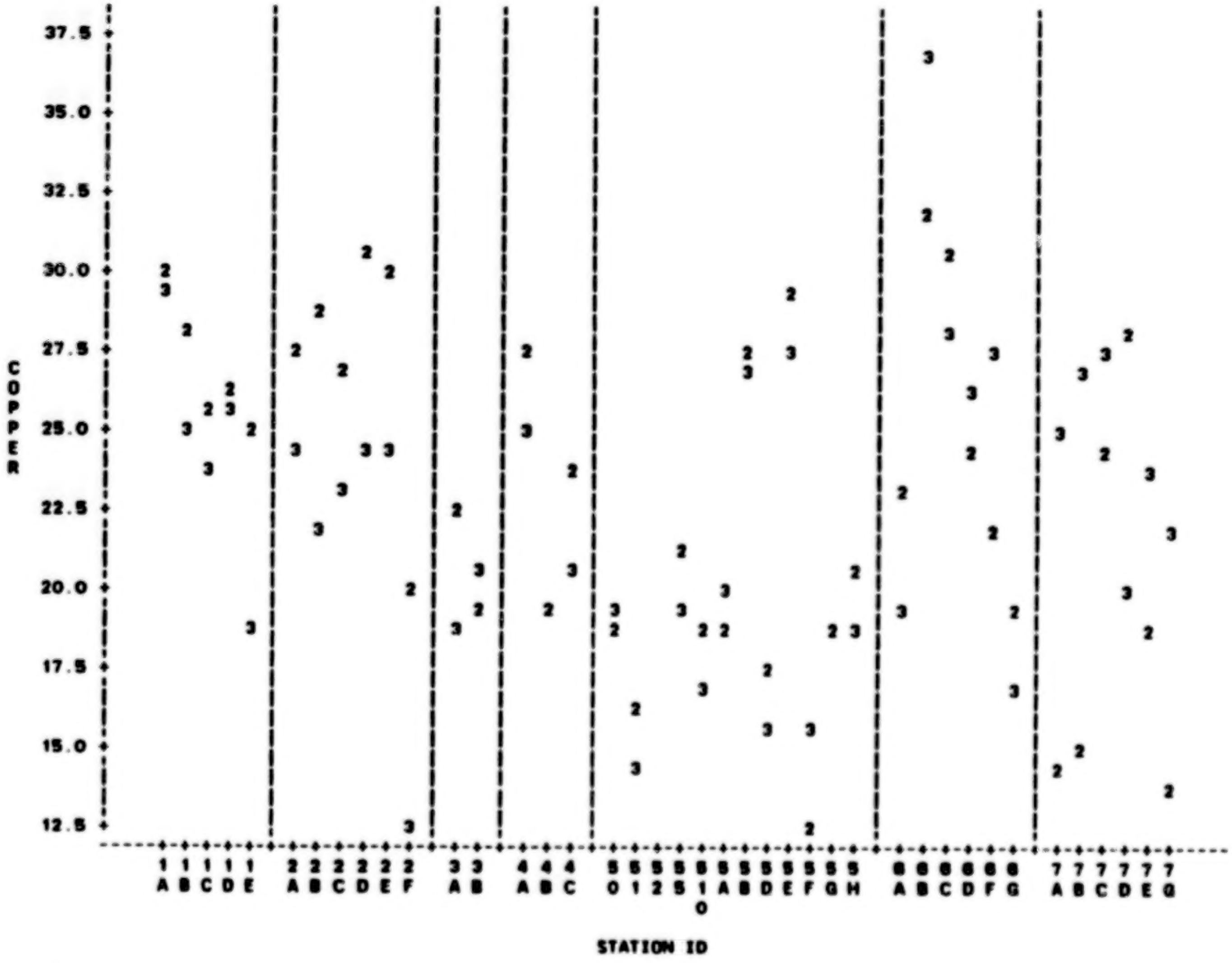
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: FINE

PLOT OF CU*STATID SYMBOL IS VALUE OF YEAR



NOTE: 2 OBS HIDDEN

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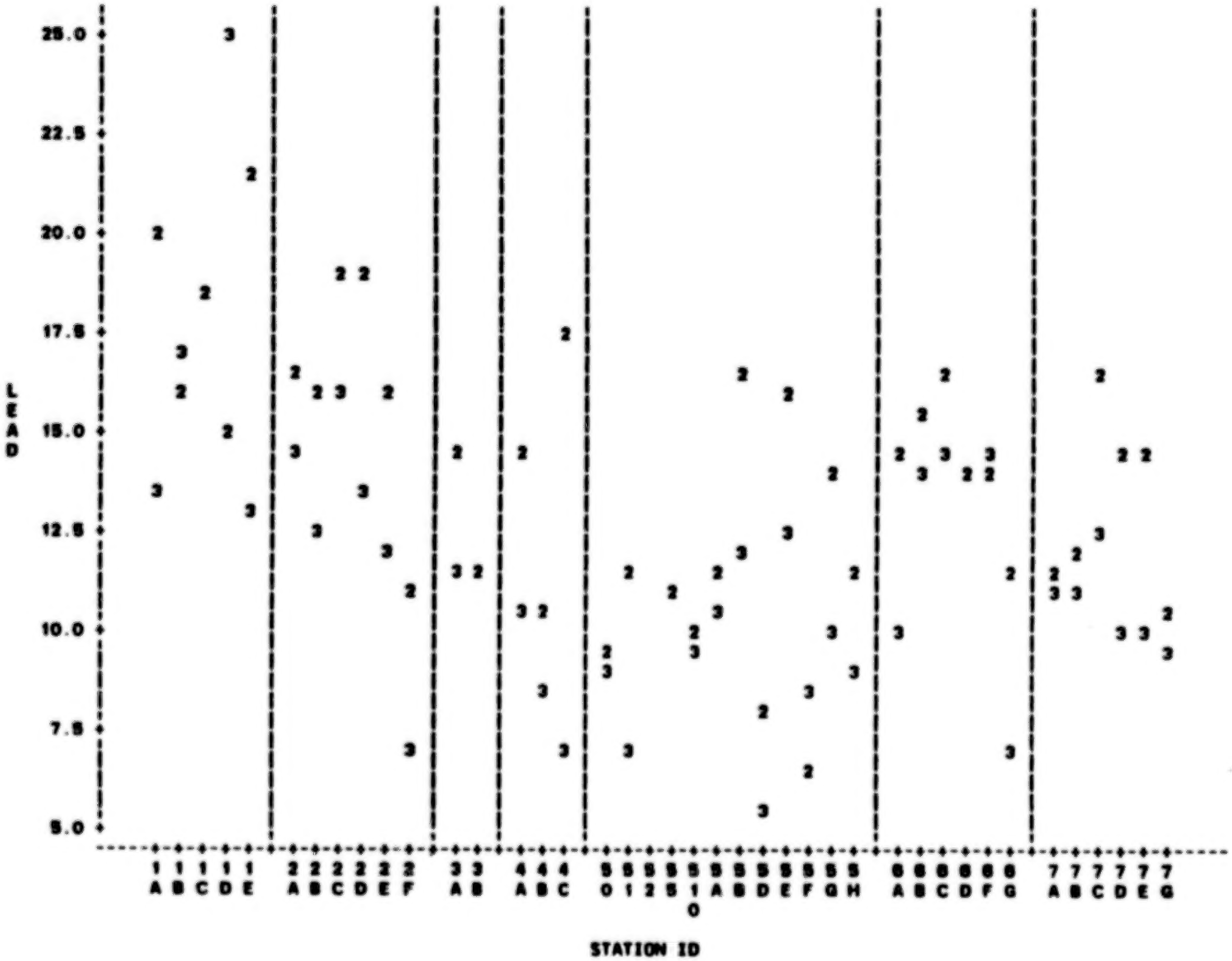
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: FINE

PLOT OF PB*STATID SYMBOL IS VALUE OF YEAR



NOTE: 4 OBS HIDDEN

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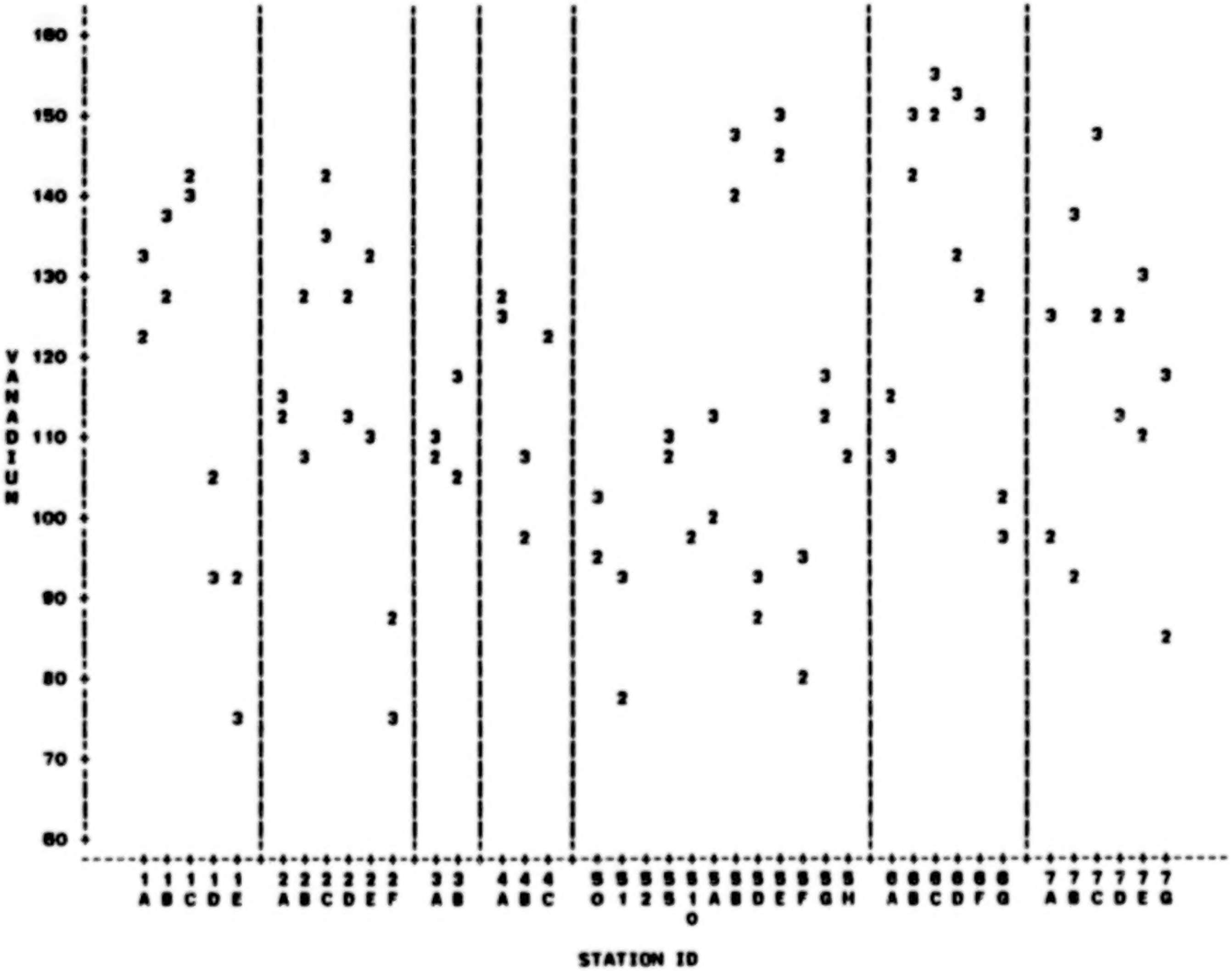
0167

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: FINE

PLOT OF V*STATID SYMBOL IS VALUE OF YEAR



NOTE: 3 OBS HIDDEN

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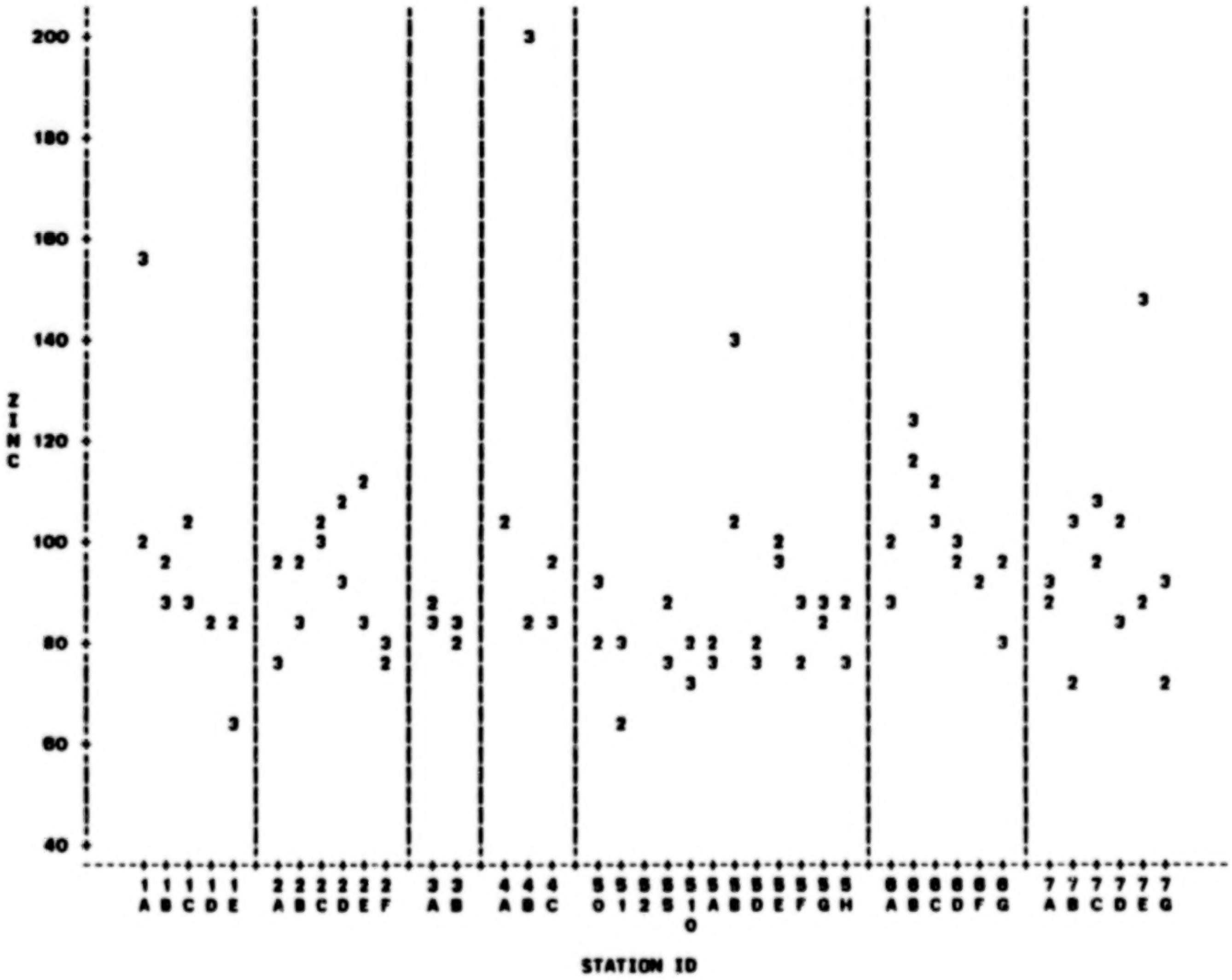
0168

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: FINE

PLOT OF ZN*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 3 OBS HIDDEN

0169

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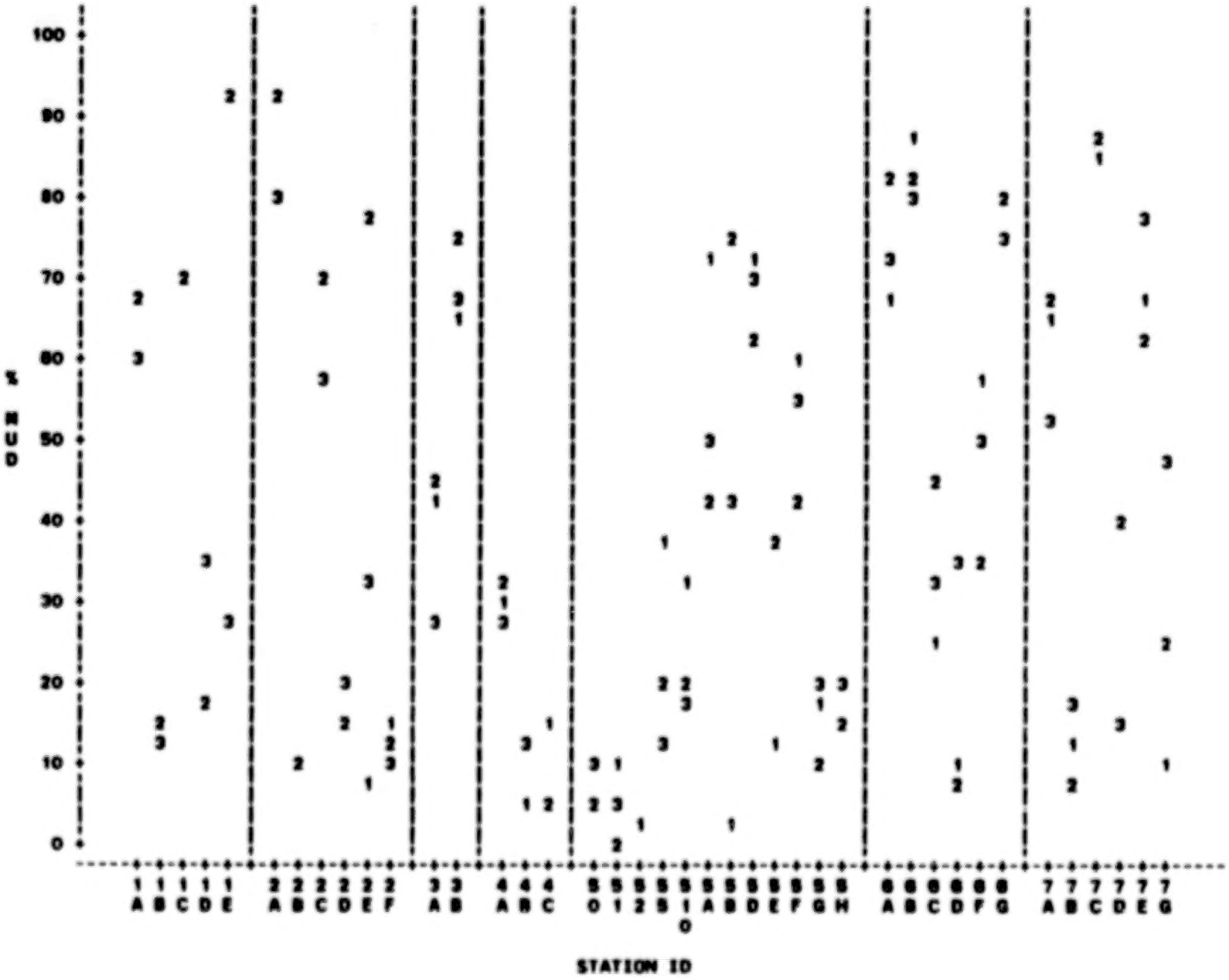
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF PER_MUD*STATID   SYMBOL IS VALUE OF YEAR

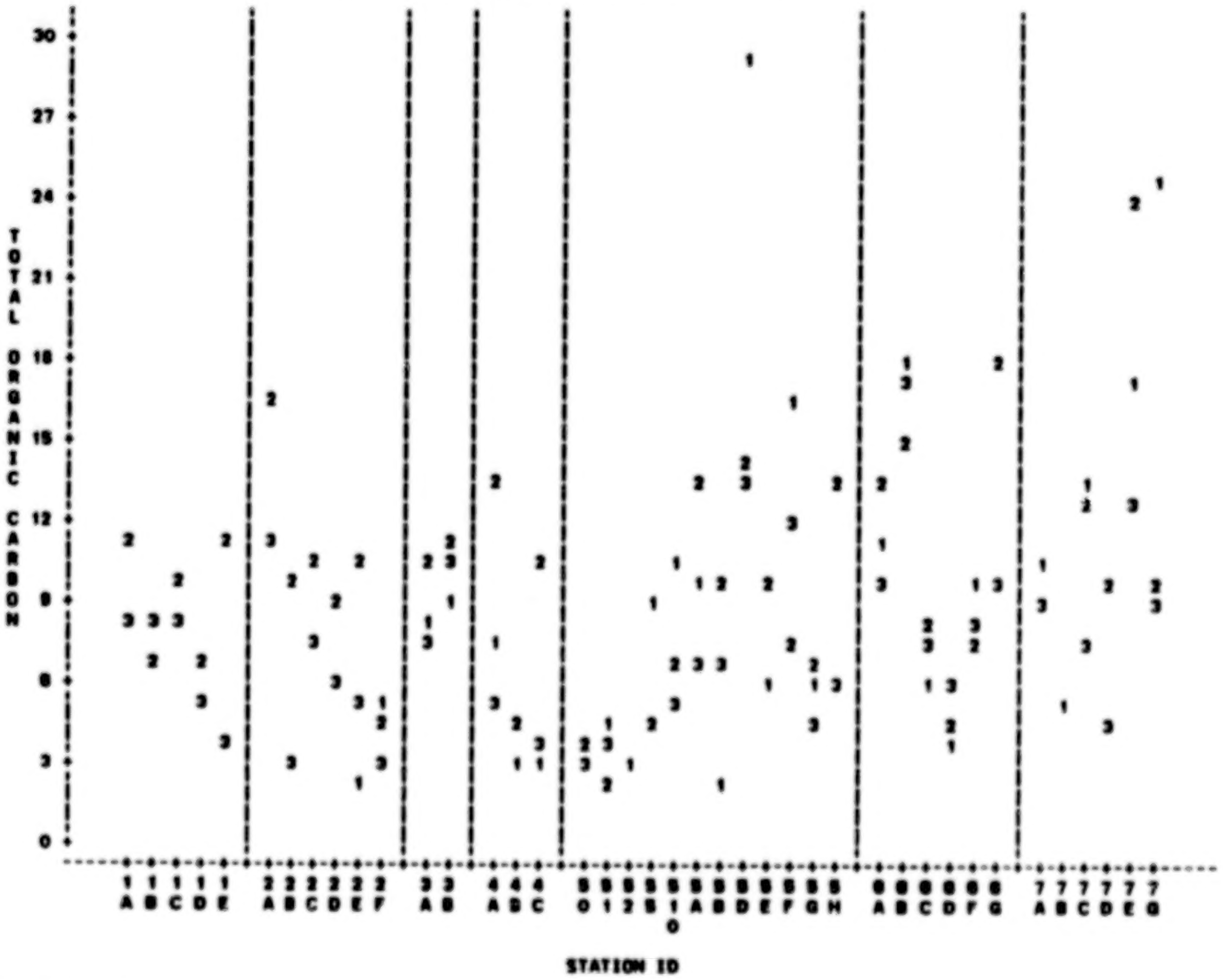


NOTE: 8 OBS HIDDEN

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF TOC*STATID   SYMBOL IS VALUE OF YEAR



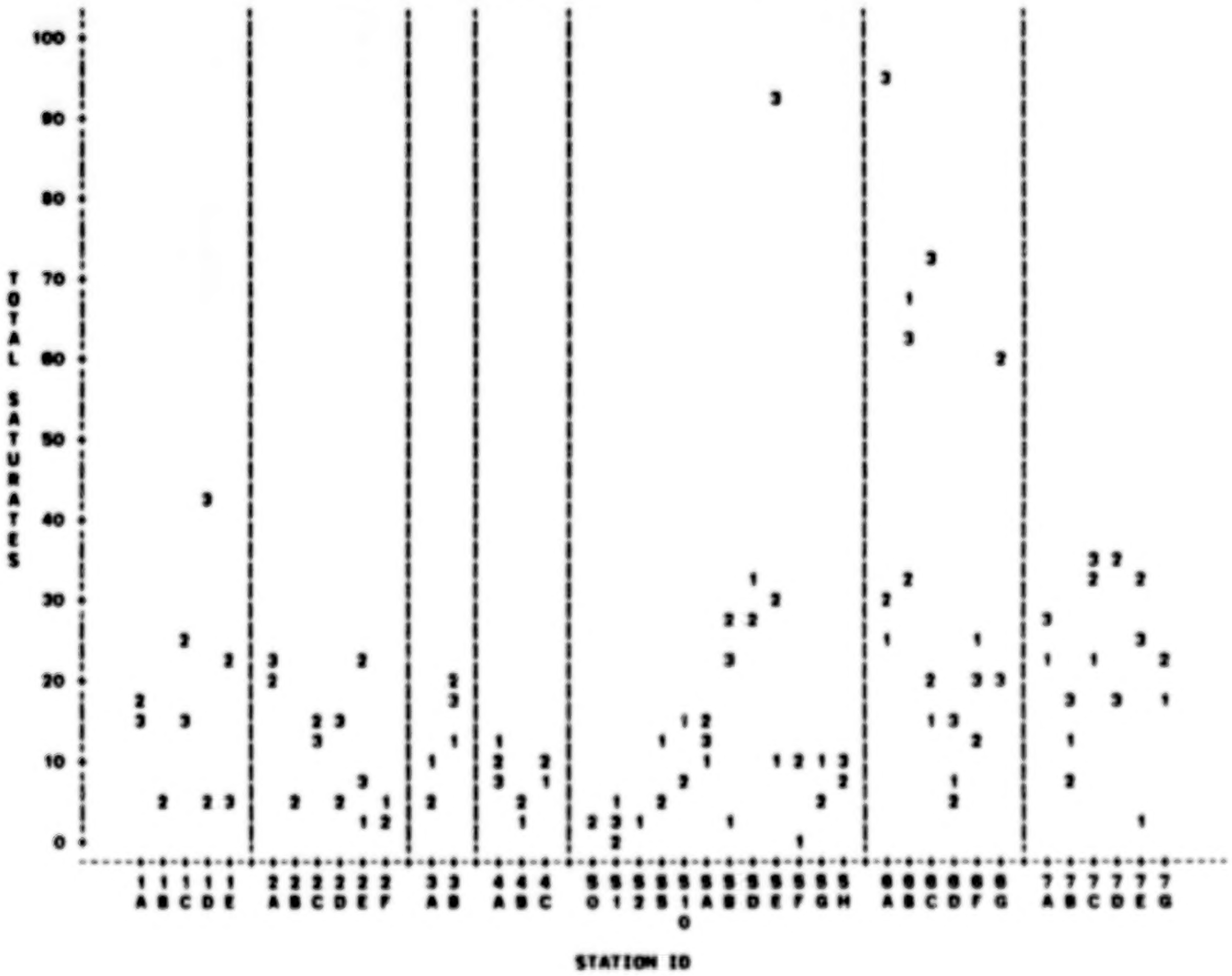
NOTE: 8 OBS HIDDEN

0171

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF TOT*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 14 OBS HIDDEN

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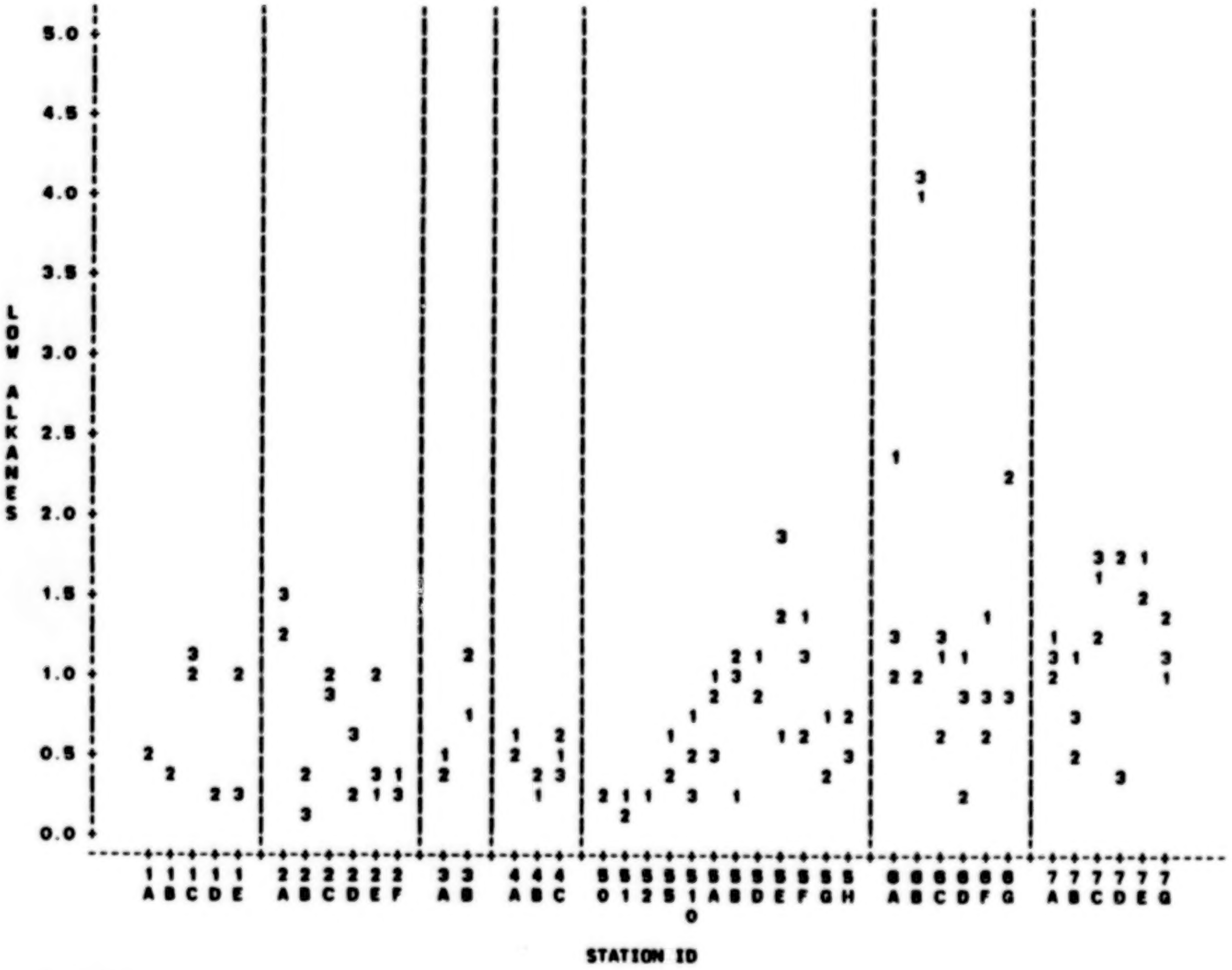
0172

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF LALK*STATID SYMBOL IS VALUE OF YEAR



NOTE: 14 OBS HIDDEN

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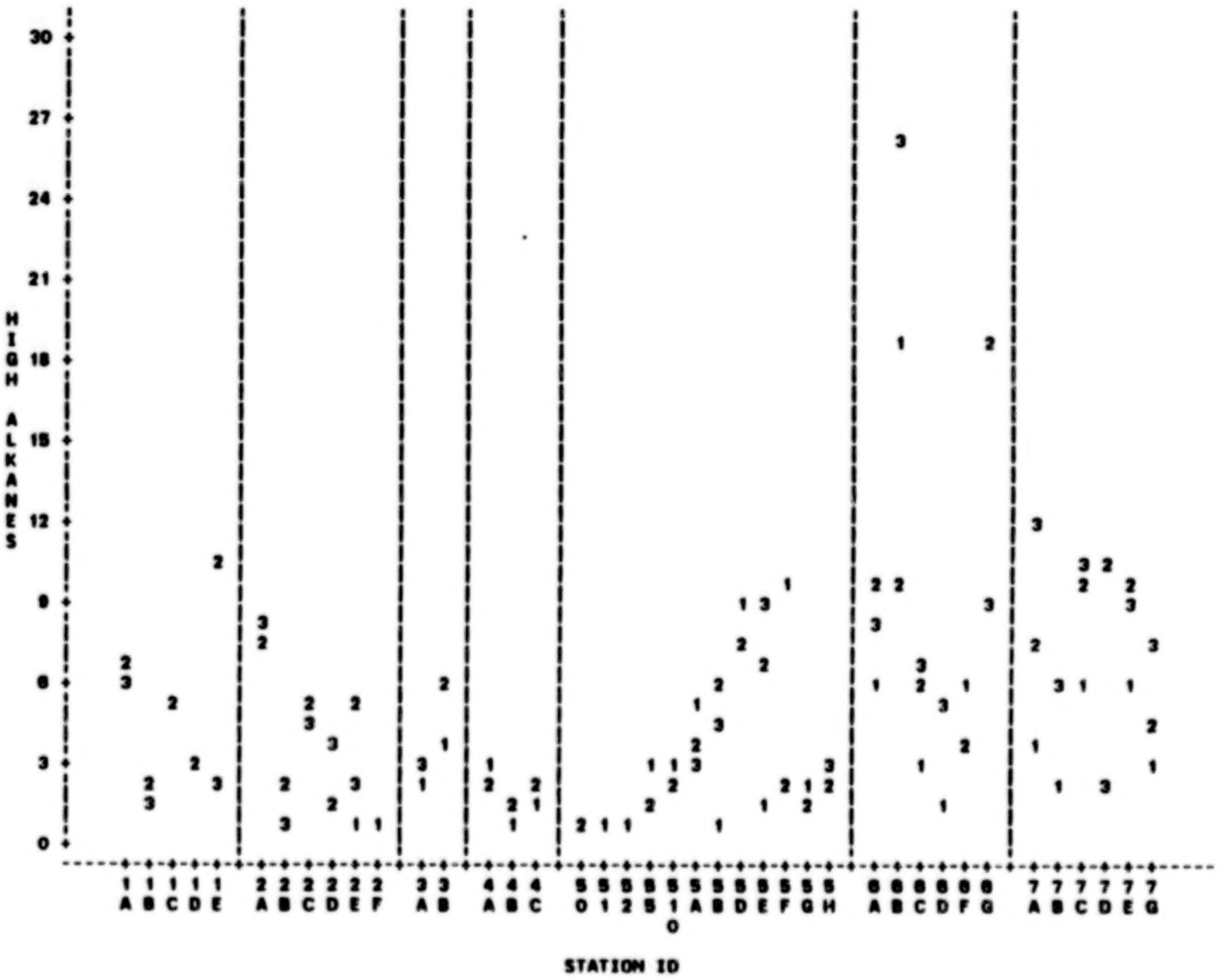
0173

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF HALK*STATID SYMBOL IS VALUE OF YEAR



NOTE: 20 OBS HIDDEN

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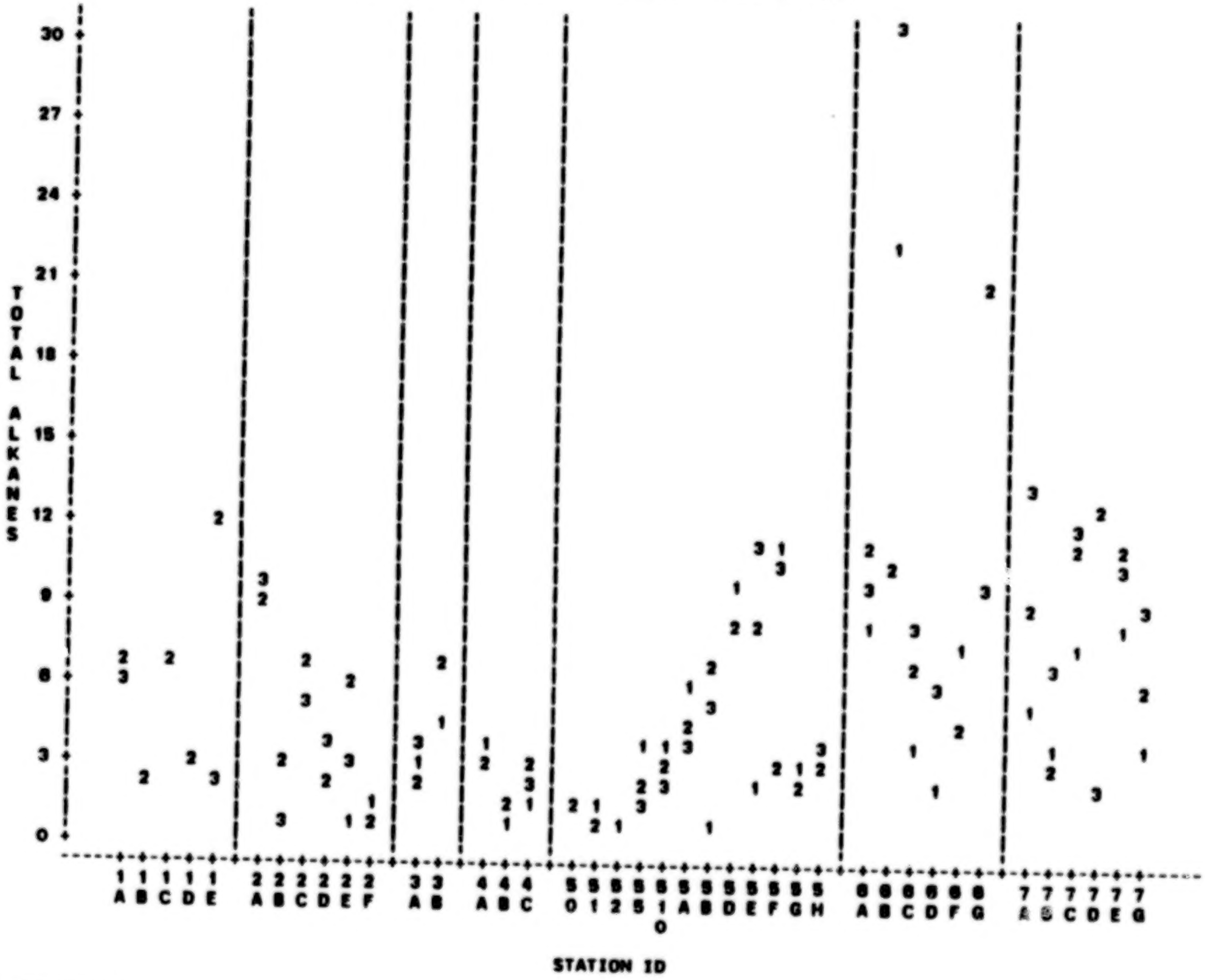
0174

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF TALK*STATID SYMBOL IS VALUE OF YEAR



NOTE: 13 OBS HIDDEN

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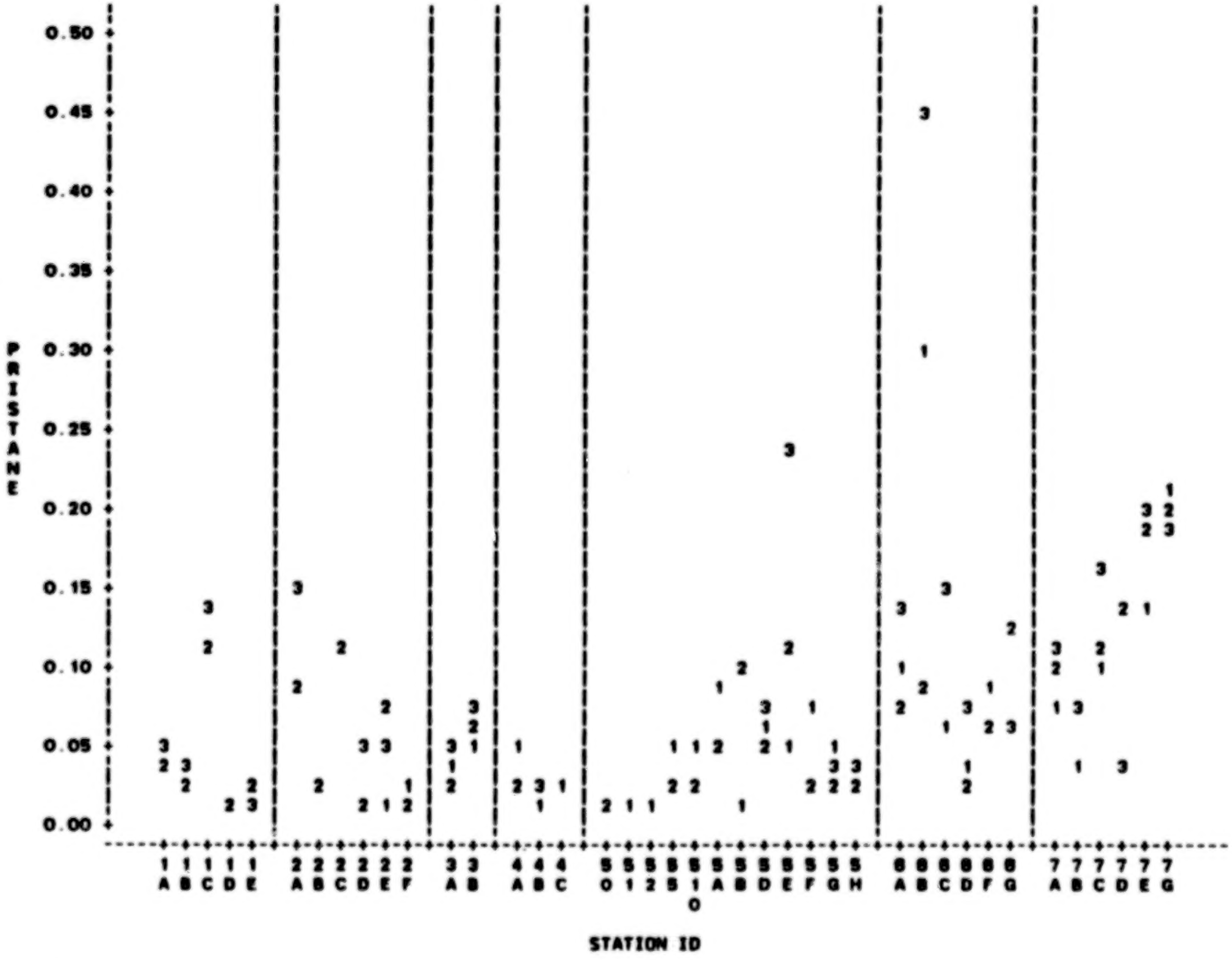
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF PRIS*STATID SYMBOL IS VALUE OF YEAR

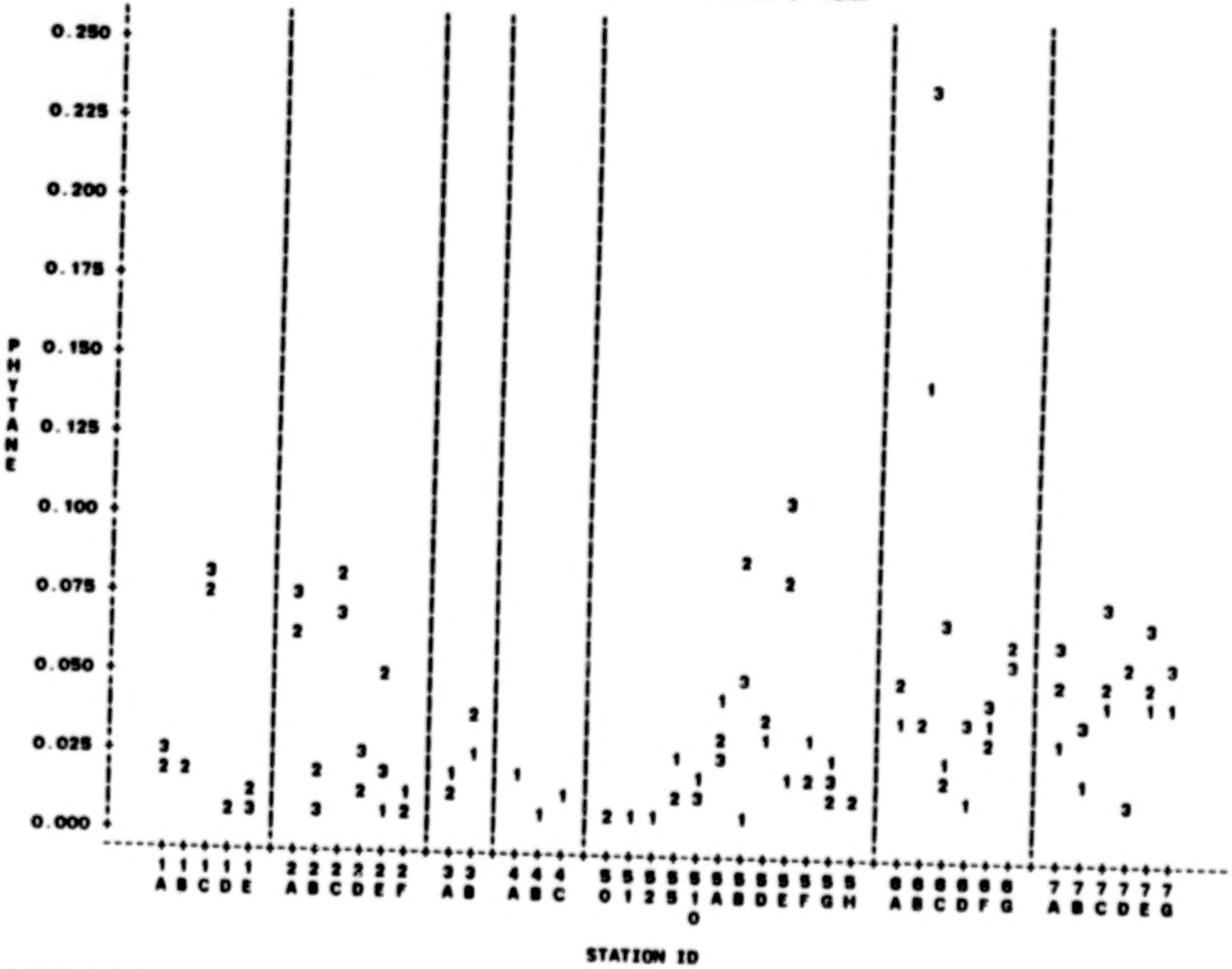


NOTE: 19 OBS HIDDEN

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF PHYT*STATID SYMBOL IS VALUE OF YEAR



NOTE: 23 OBS HIDDEN

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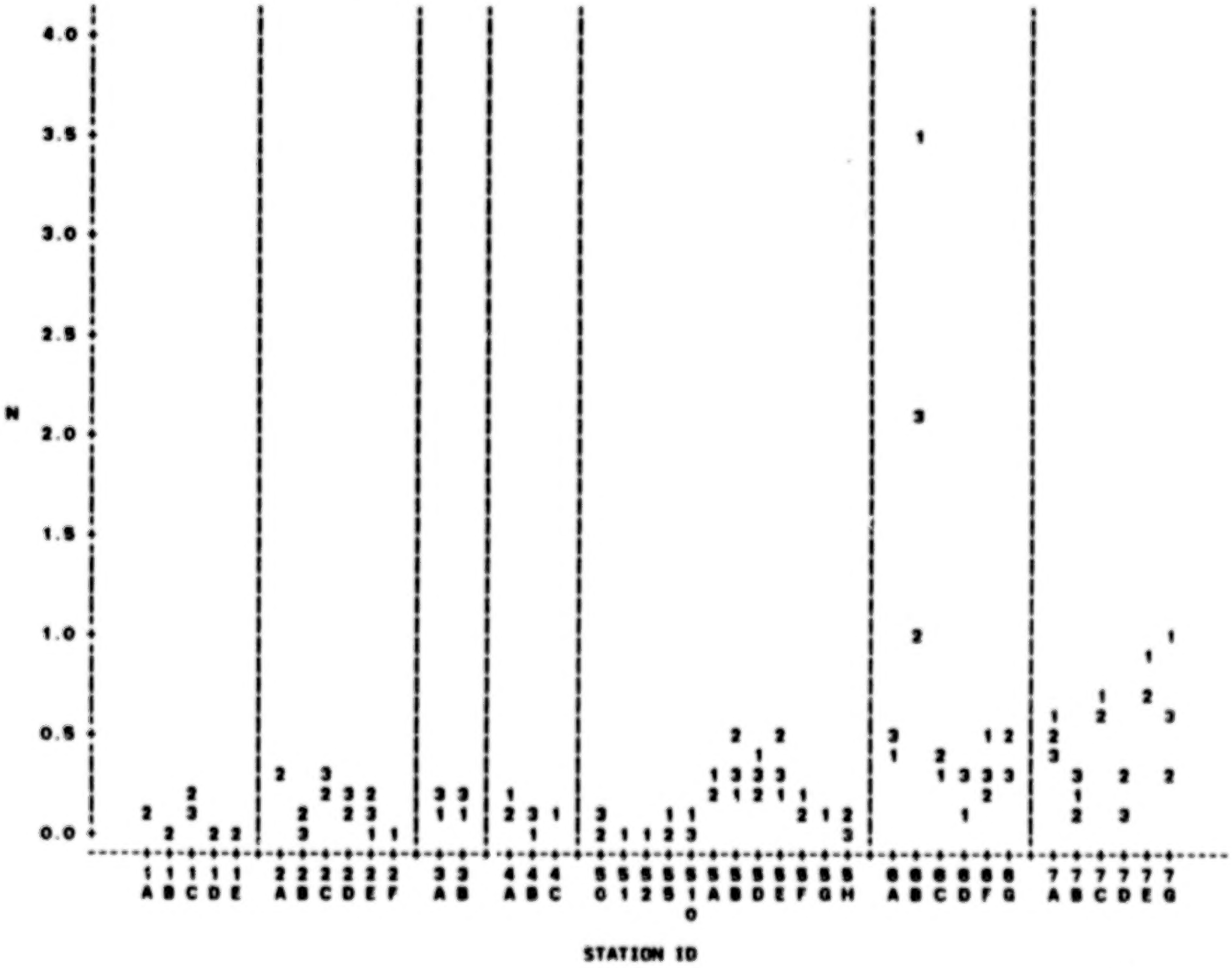
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF N*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 28 OBS HIDDEN

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0178

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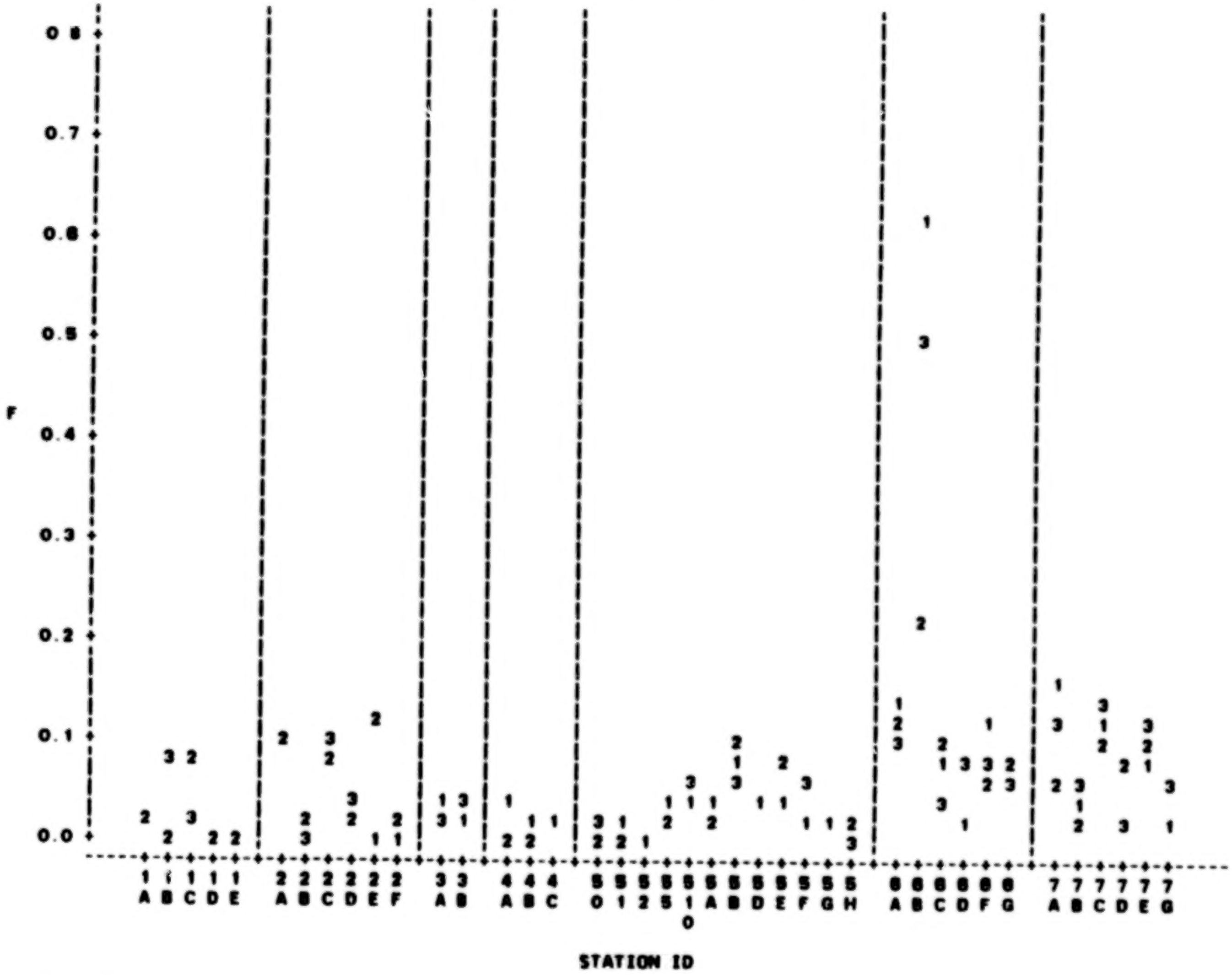
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF F*STATID SYMBOL IS VALUE OF YEAR



NOTE: 24 OBS HIDDEN

0179

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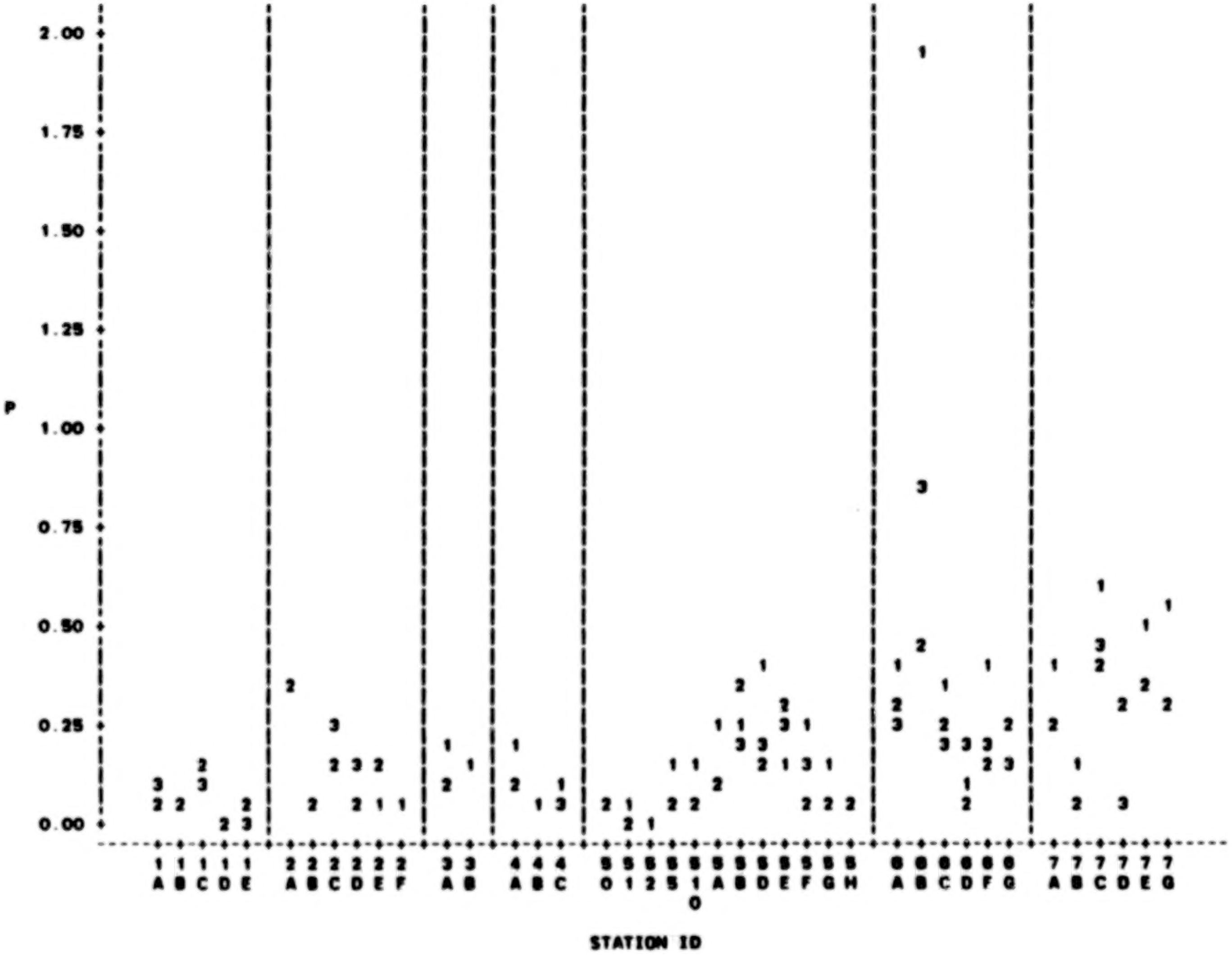
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF P*STATID SYMBOL IS VALUE OF YEAR

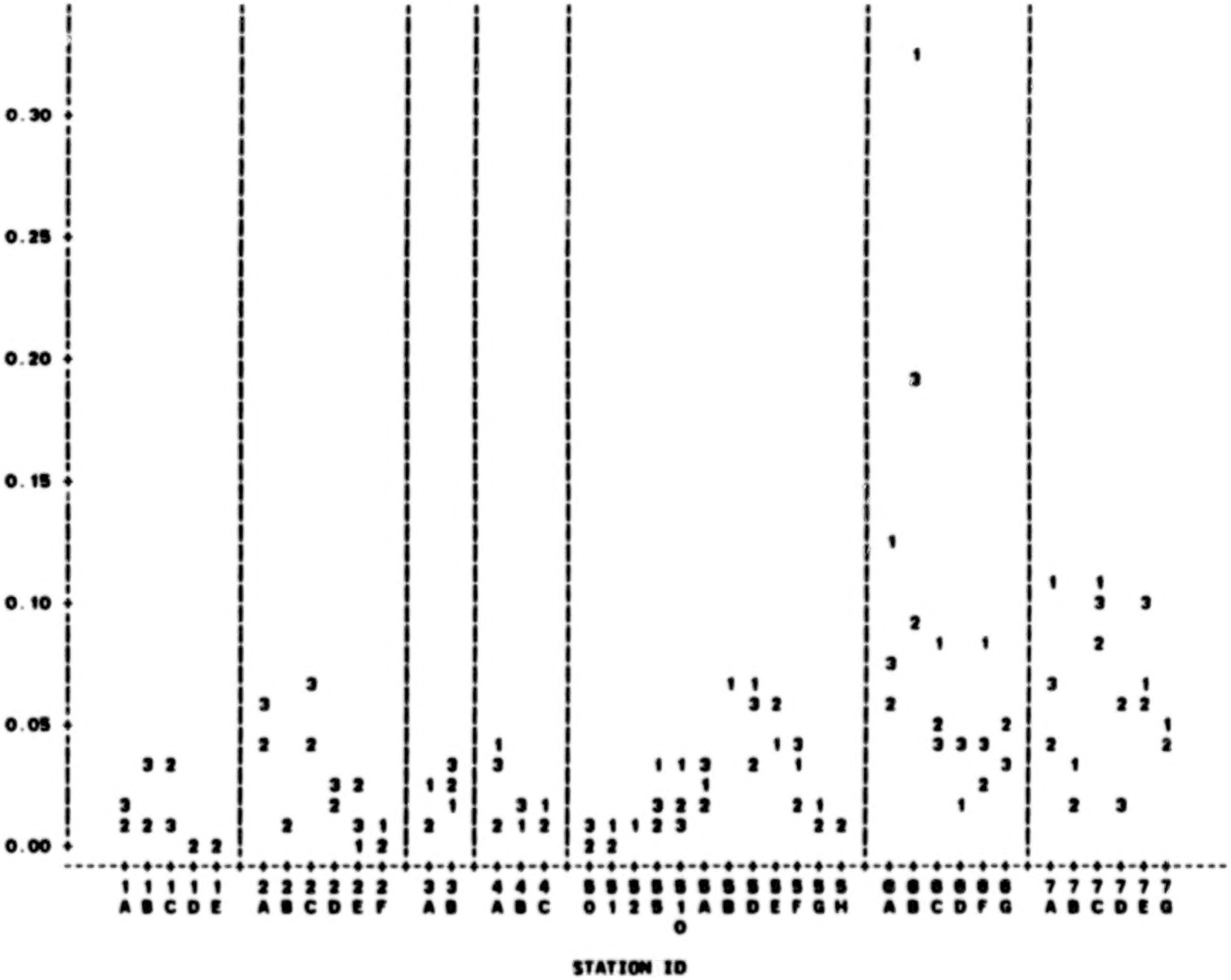


NOTE: 25 OBS HIDDEN

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF D*STATID SYMBOL IS VALUE OF YEAR



NOTE: 18 OBS HIDDEN

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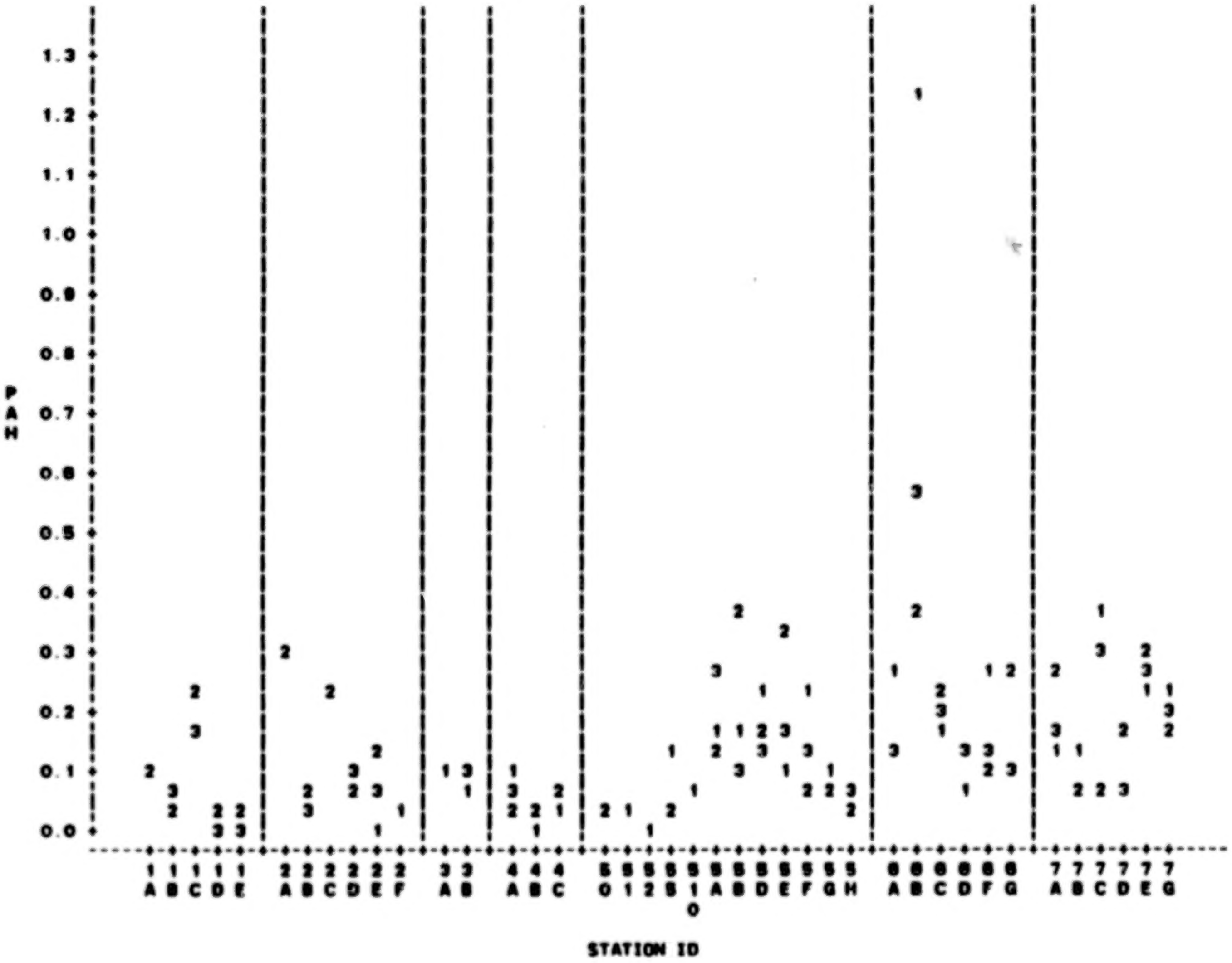
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF PAH*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 20 OBS HIDDEN

0182

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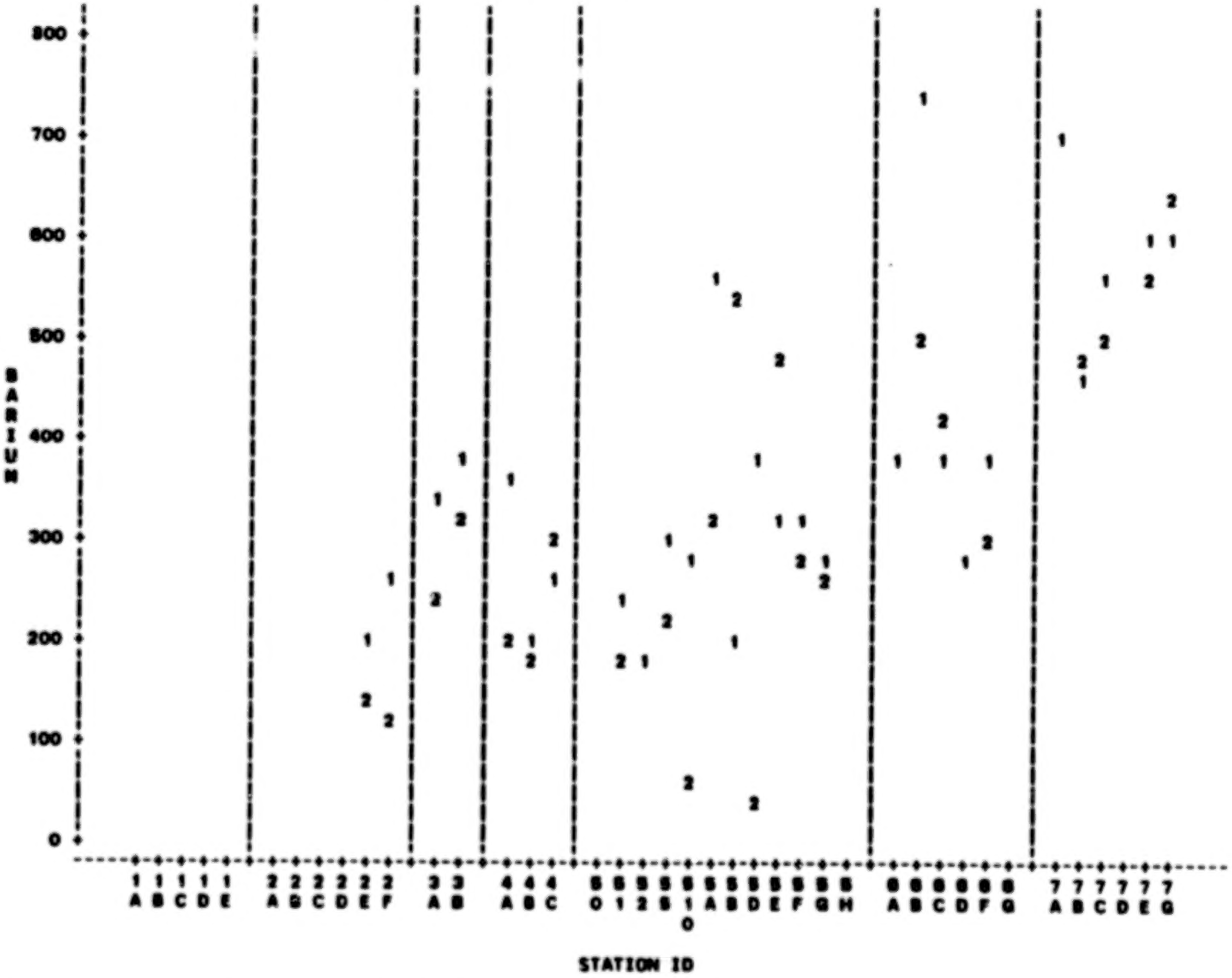
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF BA*STATID SYMBOL IS VALUE OF YEAR



NOTE: 52 OBS HAD MISSING VALUES OR WERE OUT OF RANGE 3 OBS HIDDEN

0183

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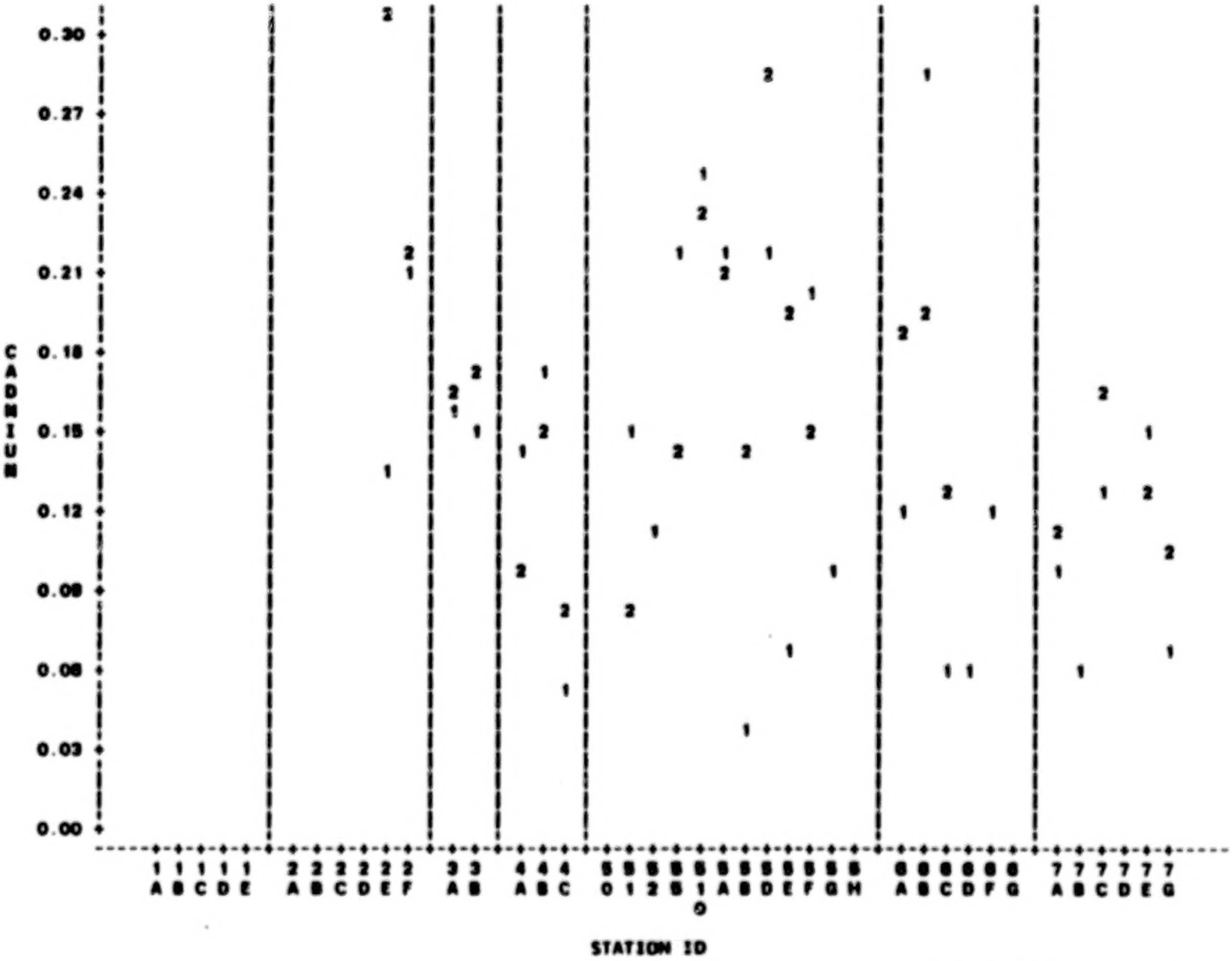
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF CD*STATID SYMBOL IS VALUE OF YEAR



NOTE: 52 OBS HAD MISSING VALUES OR WERE OUT OF RANGE 4 OBS HIDDEN

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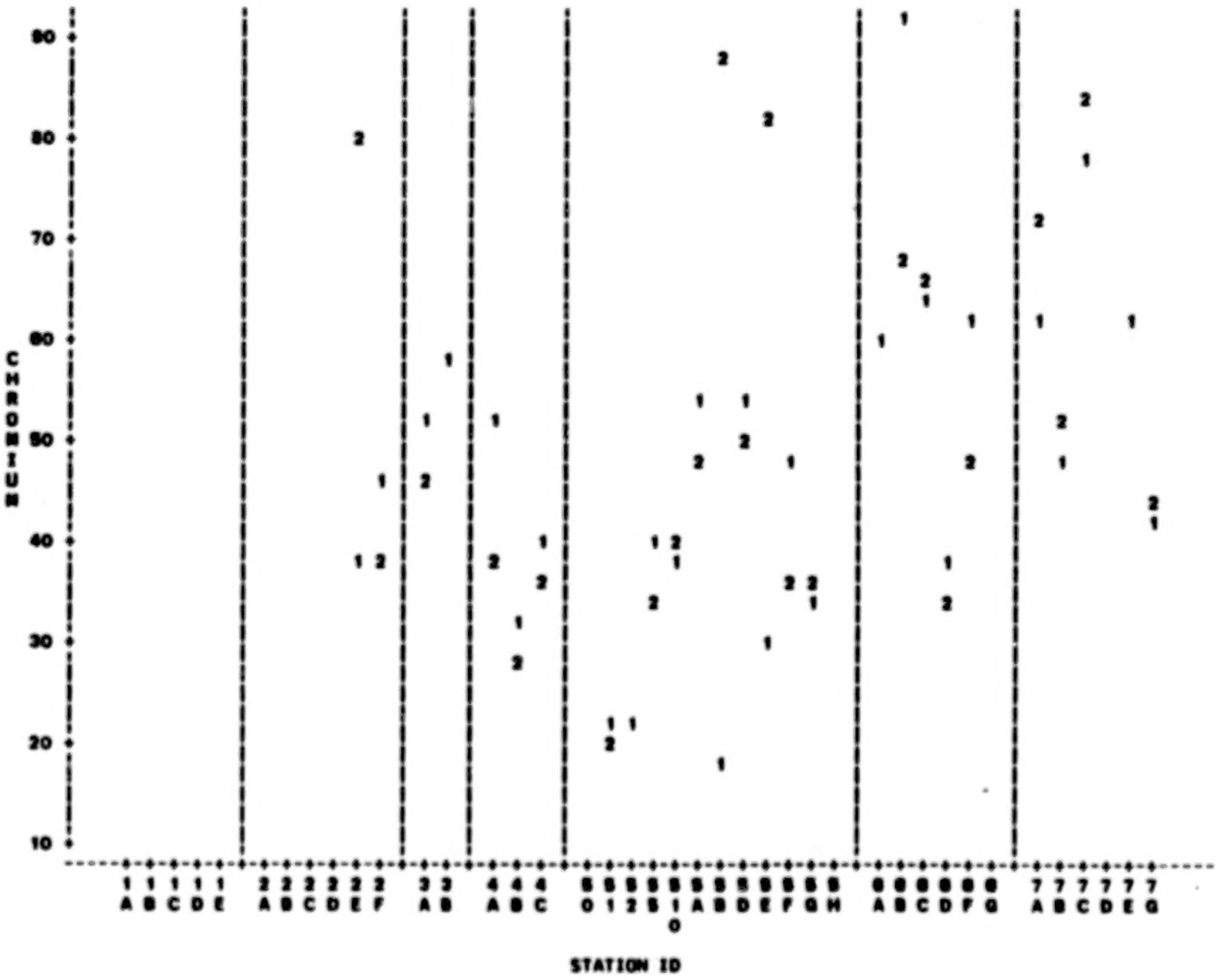
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF CR*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 52 OBS HAD MISSING VALUES OR WERE OUT OF RANGE   3 OBS HIDDEN

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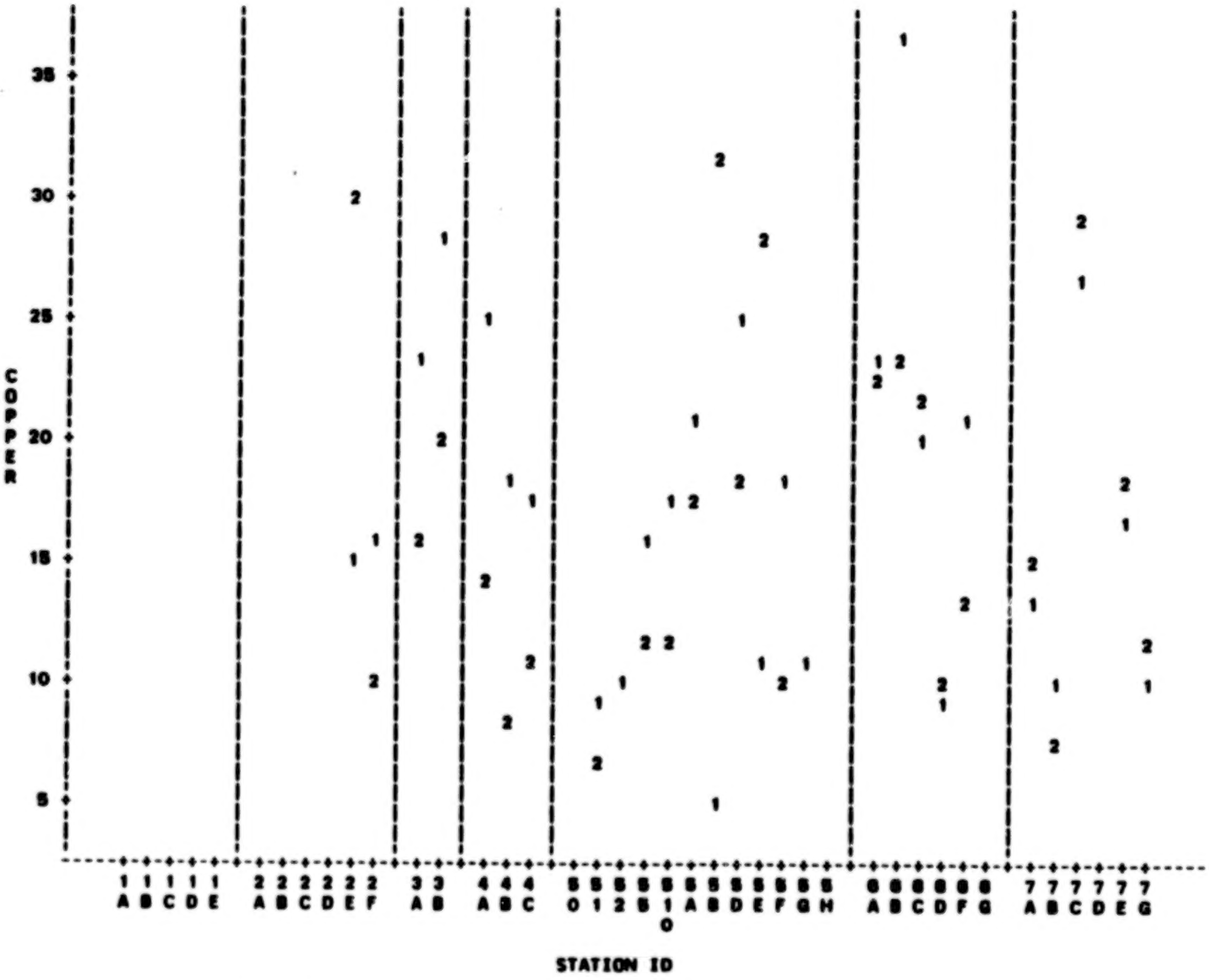
0185

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF CU*STATID SYMBOL IS VALUE OF YEAR

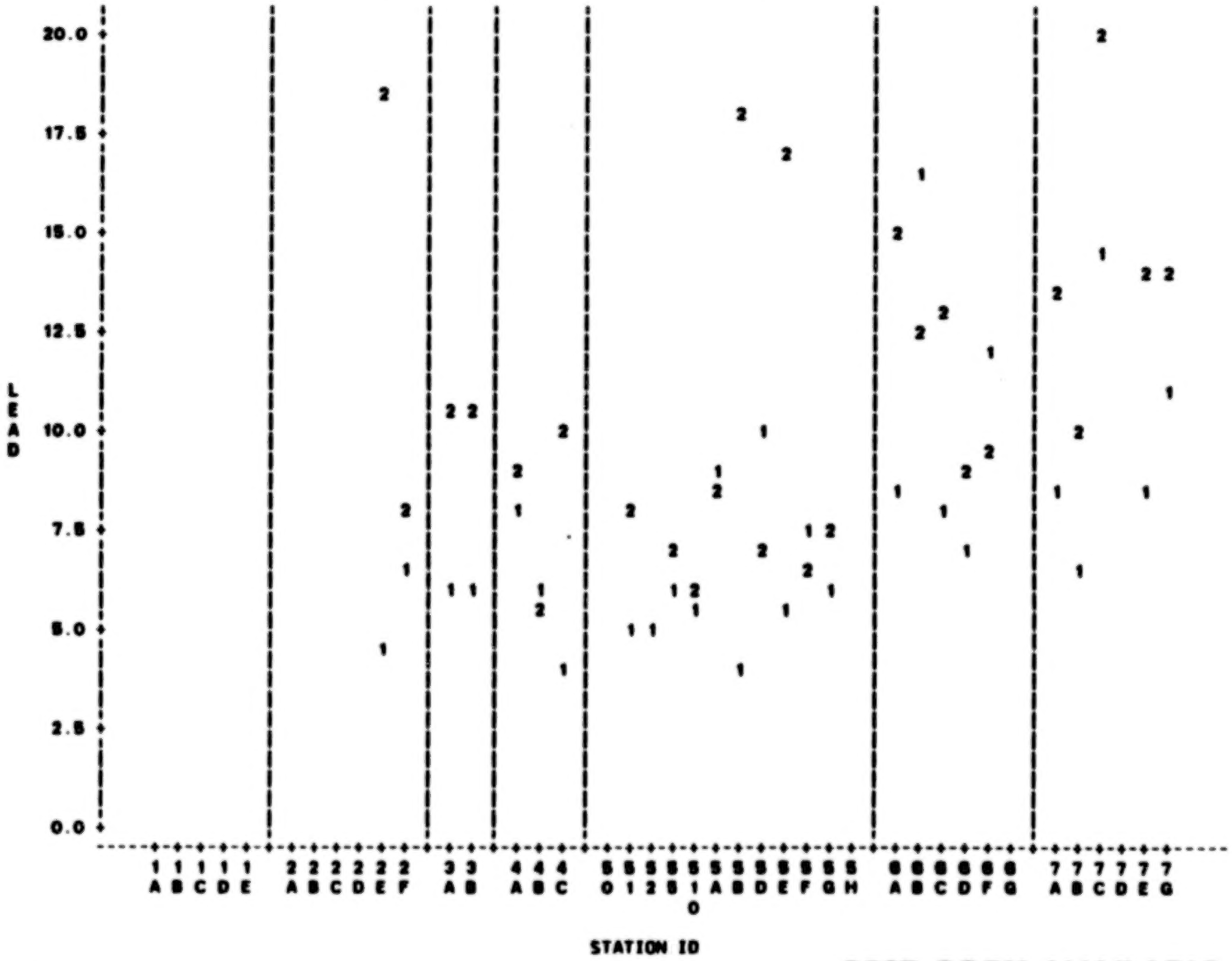


NOTE: 52 OBS HAD MISSING VALUES OR WERE OUT OF RANGE 1 OBS HIDDEN

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF PB*STATID   SYMBOL IS VALUE OF YEAR

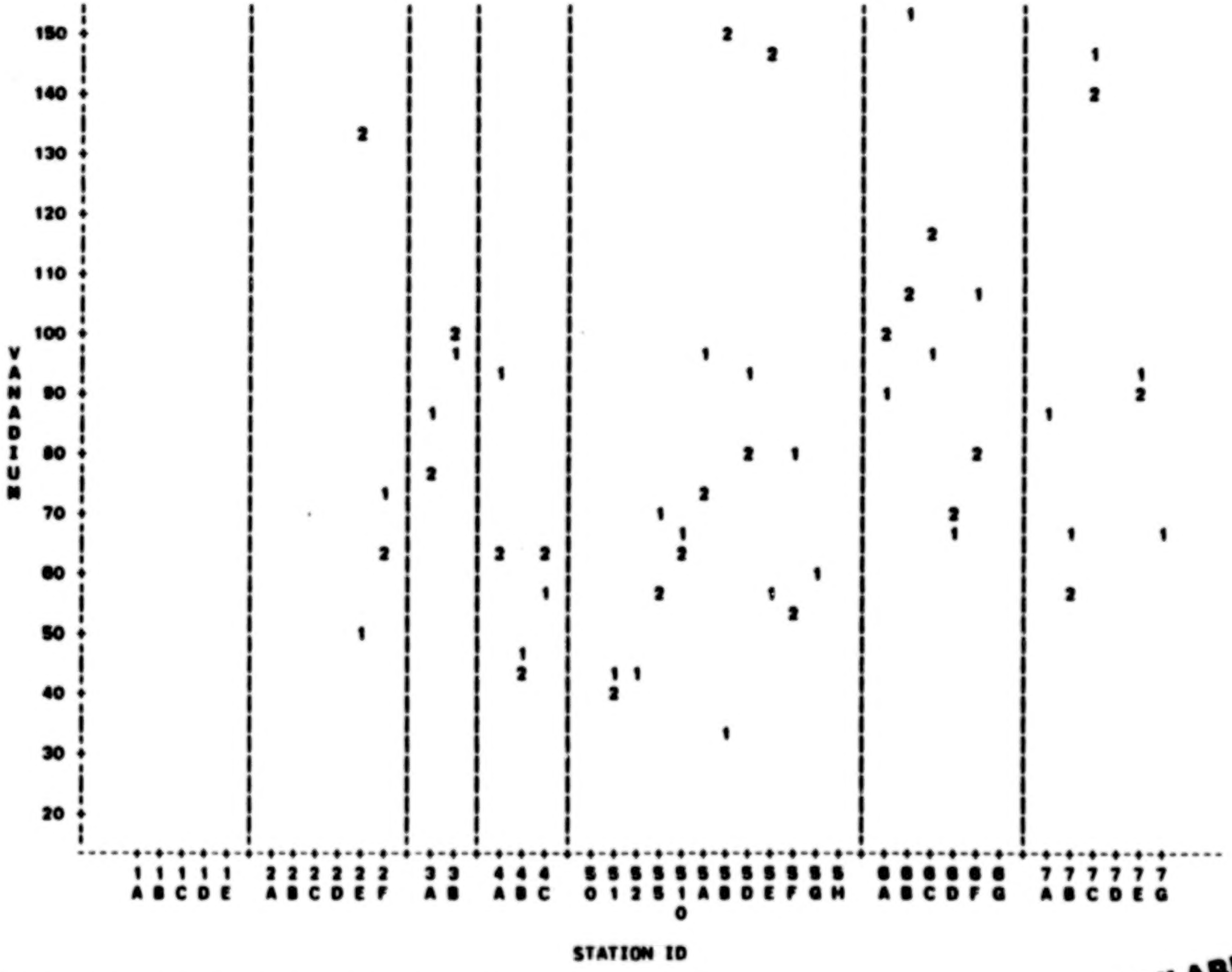


NOTE: 52 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF V*STATID   SYMBOL IS VALUE OF YEAR



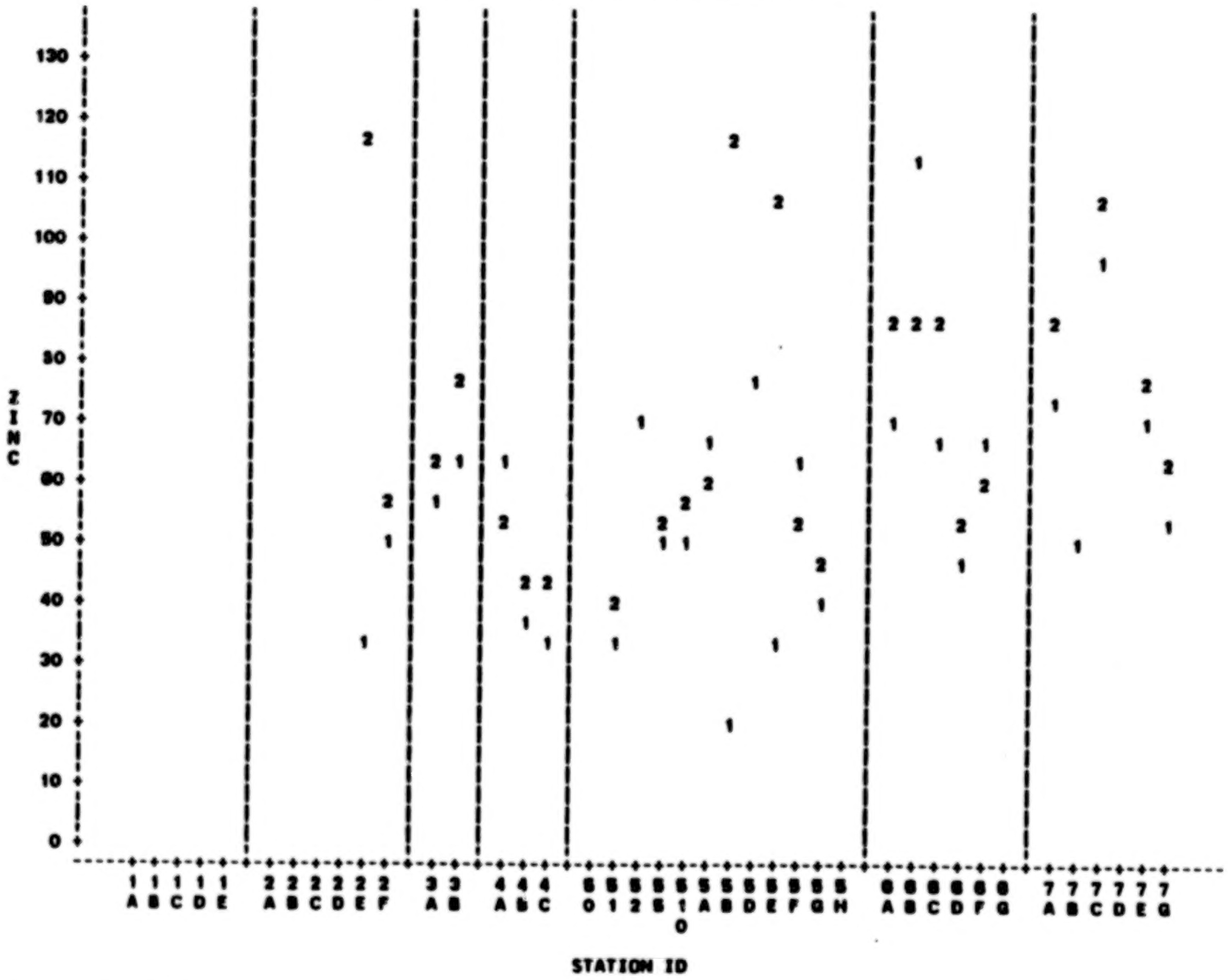
NOTE: 52 OBS HAD MISSING VALUES OR WERE OUT OF RANGE   3 OBS HIDDEN

0188

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF ZN*STATID SYMBOL IS VALUE OF YEAR



NOTE: 52 OBS HAD MISSING VALUES OR WERE OUT OF RANGE 2 OBS HIDDEN

0189

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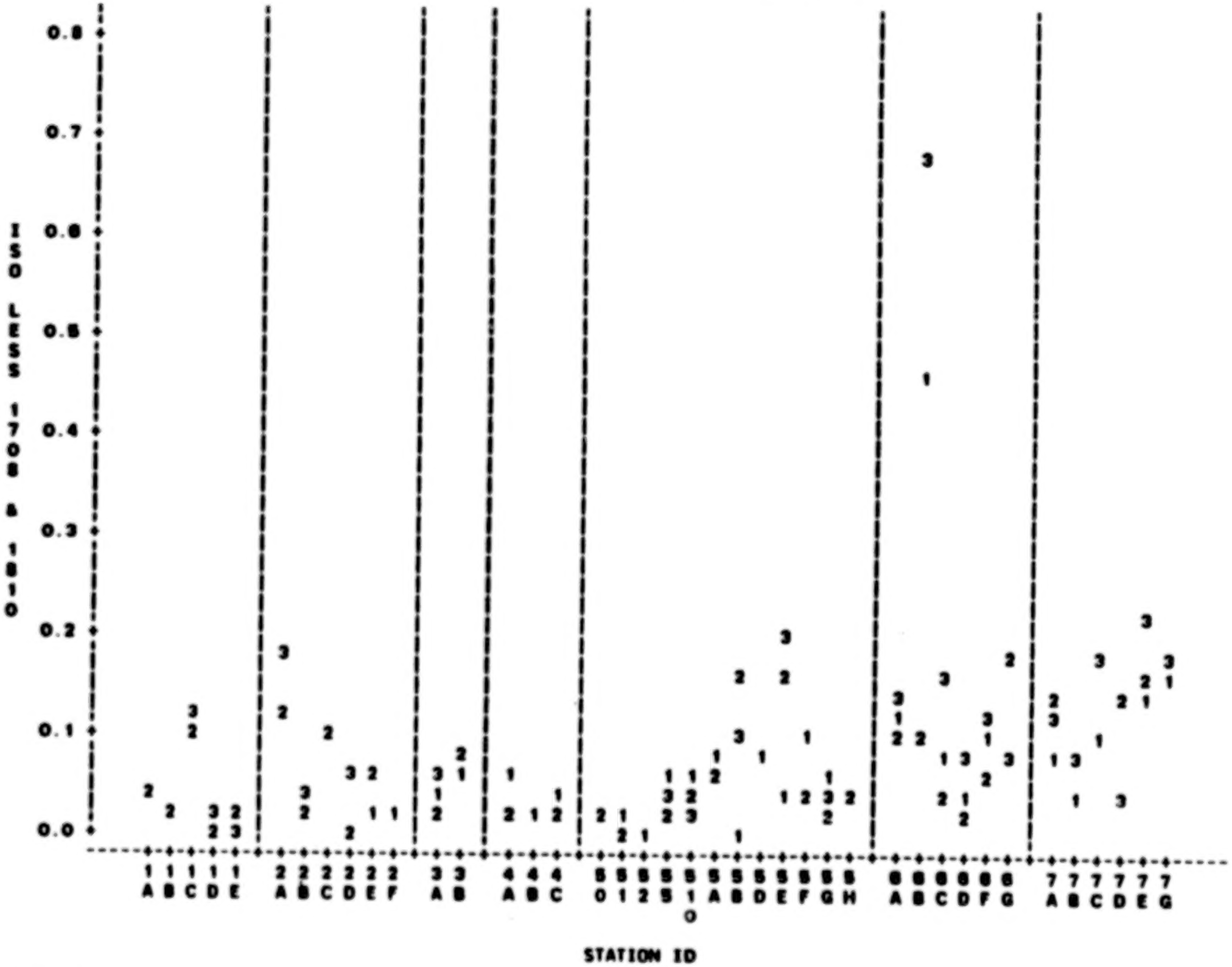
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS FOR MARINE STATIONS

TYPE OF SEDIMENT: BULK

PLOT OF ISODIFF*STATID SYMBOL IS VALUE OF YEAR



NOTE: 21 OBS HIDDEN

SECTION 3

GEOMETRIC MEAN CONCENTRATIONS
OF EACH ANALYTE ACROSS ALL REGIONS
IN THE STUDY AREA

0131

BEAUFORT SEA MONITORING PROGRAM-- DESCRIPTIVE STATISTICS
FOR CHEMICAL CONCENTRATIONS BY REGION

DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

-- REGION=CAMDEN BAY AREA --

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
N	3	0.05	1.48	0.02	0.11
F	3	0.014	1.49	0.006	0.030
P	3	0.06	1.18	0.05	0.08
D	3	0.008	1.31	0.005	0.014
PAH	3	0.04	1.50	0.02	0.10
PHYT	3	0.014	1.45	0.007	0.029
PRIS	3	0.029	1.36	0.016	0.052
LALK	3	0.43	1.18	0.31	0.60
TALK	3	2.42	1.53	1.05	5.54
TOT	3	7.51	1.30	4.08	13.81
BA	2	318	1.22	214	473
CD	2	0.16	1.20	0.11	0.24
CR	2	81	1.08	72	90
CU	2	24.6	1.10	20.6	29.5
PB	2	15.5	1.09	13.0	18.3
V	2	114	1.04	106	123
ZN	2	92	1.04	86	99
TOC	3	5.78	1.31	3.40	9.81
MUD	3	22.5	1.44	11.0	46.2
FFPI	3	75	1.04	70	81
ISO/ALK	3	0.411	1.05	0.371	0.456
LALK/TAL	3	0.178	1.29	0.107	0.296
PRIS/PHY	3	2.0	1.10	1.7	2.4
N/P	3	0.8	1.28	0.5	1.3
P/D	3	8.2	1.11	6.6	10.1
PAH/TOC	3	0.008	1.14	0.006	0.010
TOT/TOC	3	1.3	1.18	1.0	1.9
BA/CR	2	3.9	1.29	2.4	6.5
BA/V	2	2.8	1.18	2.0	3.8

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BEAUFORT SEA MONITORING PROGRAM-- DESCRIPTIVE STATISTICS
FOR CHEMICAL CONCENTRATIONS BY REGION

DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

-- REGION=FOGGY ISLAND BAY AREA --

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
N	3	0.09	1.08	0.08	0.10
F	3	0.019	1.17	0.014	0.026
P	3	0.09	1.14	0.07	0.11
D	3	0.014	1.31	0.008	0.024
PAH	3	0.06	1.05	0.06	0.07
PHYT	3	0.016	1.04	0.015	0.017
PRIS	3	0.034	1.11	0.028	0.041
LALK	3	0.50	1.06	0.45	0.57
TALK	3	2.73	1.06	2.44	3.05
TOT	3	8.19	1.04	7.62	8.81
BA	2	330	1.04	305	358
CD	2	0.19	1.04	0.17	0.20
CR	2	75	1.07	65	85
CU	2	20.8	1.03	19.5	22.2
PB	2	11.2	1.17	8.2	15.3
V	2	113	1.02	110	117
ZN	2	87	1.01	86	89
TOC	3	6.50	1.21	4.49	9.42
MUD	3	21.2	1.08	18.2	24.7
FFPI	3	77	1.03	73	81
ISO/ALK	3	0.425	1.02	0.411	0.441
LALK/TAL	3	0.184	1.11	0.151	0.225
PRIS/PHY	3	2.1	1.08	1.8	2.5
N/P	3	1.0	1.08	0.9	1.2
P/D	3	6.2	1.24	4.0	9.4
PAH/TOC	3	0.009	1.24	0.006	0.014
TOT/TOC	3	1.2	1.22	0.8	1.8
BA/CR	2	4.4	1.03	4.2	4.7
BA/V	2	2.9	1.02	2.8	3.1

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0193

BEAUFORT SEA MONITORING PROGRAM-- DESCRIPTIVE STATISTICS FOR CHEMICAL CONCENTRATIONS BY REGION

DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

-- REGION=KUPARUK RIVER BAY AREA --

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
N	3	0.23	1.04	0.22	0.25
F	3	0.044	1.04	0.040	0.048
P	3	0.19	1.16	0.14	0.25
D	3	0.040	1.12	0.032	0.050
PAH	3	0.15	1.10	0.13	0.18
PHYT	3	0.033	1.28	0.020	0.053
PRIS	3	0.063	1.24	0.041	0.097
LALK	3	0.89	1.09	0.75	1.05
TALK	3	5.61	1.18	4.07	7.72
TOT	3	14.05	1.53	6.13	32.20
BA	2	267	1.23	177	404
CD	2	0.19	1.11	0.15	0.23
CR	2	76	1.12	61	95
CU	2	20.3	1.01	19.8	20.8
PB	2	10.1	1.08	8.8	11.7
V	2	112	1.04	103	121
ZN	2	90	1.03	85	95
TOC	3	9.66	1.05	8.70	10.72
MUD	3	40.1	1.24	26.2	61.4
FFPI	3	76	1.03	72	80
ISO/ALK	3	0.467	1.04	0.436	0.500
LALK/TAL	3	0.158	1.09	0.135	0.187
PRIS/PHY	3	1.9	1.17	1.4	2.6
N/P	3	1.2	1.14	0.9	1.6
P/D	3	4.7	1.14	3.7	6.1
PAH/TOC	3	0.017	1.17	0.013	0.023
TOT/TOC	3	1.6	1.37	0.9	2.9
BA/CR	2	3.5	1.10	2.9	4.2
BA/V	2	2.4	1.18	1.7	3.3

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BEAUFORT SEA MONITORING PROGRAM-- DESCRIPTIVE STATISTICS
FOR CHEMICAL CONCENTRATIONS BY REGION

DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

-- REGION=EAST HARRISON BAY AREA --

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
N	3	0.41	1.09	0.34	0.49
F	3	0.091	1.08	0.078	0.107
P	3	0.27	1.21	0.19	0.39
D	3	0.059	1.23	0.039	0.088
PAH	3	0.20	1.11	0.16	0.24
PHYT	3	0.043	1.25	0.028	0.067
PRIS	3	0.090	1.21	0.061	0.131
LALK	3	1.19	1.28	0.73	1.94
TALK	3	7.85	1.14	6.12	10.07
TOT	3	25.42	1.20	17.83	36.22
BA	2	315	1.01	309	320
CD	2	0.16	1.12	0.13	0.20
CR	2	90	1.12	72	113
CU	2	24.9	1.01	24.5	25.4
PB	2	13.1	1.09	11.0	15.5
V	2	130	1.02	125	136
ZN	2	100	1.02	95	104
TOC	3	9.18	1.04	8.43	9.99
MUD	3	44.7	1.10	36.8	54.3
FFPI	3	80	1.01	78	82
ISO/ALK	3	0.495	1.03	0.470	0.522
LALK/TAL	3	0.152	1.33	0.087	0.266
PRIS/PHY	3	2.1	1.07	1.8	2.4
N/P	3	1.5	1.14	1.2	2.0
P/D	3	4.6	1.04	4.3	5.0
PAH/TOC	3	0.021	1.12	0.017	0.026
TOT/TOC	3	2.6	1.19	1.9	3.7
BA/CR	2	3.5	1.11	2.8	4.3
BA/V	2	2.4	1.01	2.4	2.5

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                    BEAUFORT SEA MONITORING PROGRAM-- DESCRIPTIVE STATISTICS
                           FOR CHEMICAL CONCENTRATIONS BY REGION

              DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
                         DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

-------------------------------------------- REGION=WEST HARRISON BAY AREA --------------------------------------------

      TYPE OF          # NONMISSING    GEOMETRIC    % STD ERR OF    LOWER 95% CONF.    UPPER 95% CONF.
      CONCENTRATION       VALUES          MEAN       GEOM. MEAN     LIMIT FOR G.M.     LIMIT FOR G.M.

        N                   3            0.44          1.16             0.32               0.59
        F                   3            0.060         1.09             0.051              0.071
        P                   3            0.28          1.21             0.19               0.41
        D                   3            0.054         1.14             0.042              0.069
        PAH                 3            0.17          1.10             0.14               0.21
        PHYT                3            0.040         1.11             0.033              0.050
        PRIS                3            0.107         1.04             0.099              0.116
        LALK                3            1.14          1.09             0.96               1.36
        TALK                3            6.95          1.14             5.38               9.00
        TOT                 3            18.53         1.24             12.24              28.06
        BA                  2            518           1.23             344                779
        CD                  2            0.13          1.13             0.10               0.17
        CR                  2            112           1.25             72                 173
        CU                  2            21.1          1.15             16.1               27.5
        PB                  2            11.8          1.11             9.6                14.4
        V                   2            116           1.11             95                 141
        ZN                  2            93            1.10             77                 113
        TOC                 3            10.10         1.17             7.43               13.73
        MUD                 3            37.5          1.05             34.0               41.3
        FFPI                3            82            1.01             80                 84
        ISO/ALK             3            0.547         1.03             0.516              0.580
        LALK/TAL            3            0.164         1.24             0.108              0.250
        PRIS/PHY            3            2.7           1.08             2.3                3.1
        N/P                 3            1.6           1.09             1.3                1.9
        P/D                 3            5.3           1.13             4.2                6.8
        PAH/TOC             3            0.017         1.16             0.013              0.023
        TOT/TOC             3            1.8           1.47             0.8                3.8
        BA/CR               2            4.6           1.54             2.0                10.8
        BA/V                2            4.5           1.36             2.4                8.2
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                 BEAUFORT SEA MONITORING PROGRAM-- DESCRIPTIVE STATISTICS
                       FOR CHEMICAL CONCENTRATIONS BY REGION

         DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
                    DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

------------------------------------------- REGION=ENDICOTT FIELD ------------------------------------------

        TYPE OF           # NONMISSING    GEOMETRIC    % STD ERR OF    LOWER 95% CONF.    UPPER 95% CONF.
        CONCENTRATION        VALUES          MEAN       GEOM. MEAN     LIMIT FOR G.M.     LIMIT FOR G.M.

          N                    3            0.05          1.38             0.03               0.10
          F                    3            0.014         1.28             0.009              0.023
          P                    3            0.05          1.48             0.03               0.12
          D                    3            0.011         1.57             0.004              0.028
          PAH                  3            0.04          1.32             0.03               0.08
          PHYT                 3            0.010         1.23             0.007              0.015
          PRIS                 3            0.023         1.29             0.014              0.037
          LALK                 3            0.34          1.24             0.22               0.52
          TALK                 3            1.73          1.20             1.20               2.47
          TOT                  3            4.89          1.40             2.54               9.41
          BA                   2            290           1.09             243                348
          CD                   2            0.23          1.09             0.19               0.27
          CR                   2            68            1.09             58                 80
          CU                   2            18.0          1.04             16.7               19.4
          PB                   2            9.8           1.08             8.3                11.2
          V                    2            97            1.04             90                 104
          ZN                   2            78            1.02             75                 81
          TOC                  3            5.02          1.22             3.40               7.42
          MUD                  3            11.1          1.43             5.5                22.2
          FFPI                 3            74            1.03             70                 79
          ISO/ALK              3            0.408         1.09             0.342              0.485
          LALK/TAL             3            0.198         1.04             0.184              0.212
          PRIS/PHY             3            2.1           1.08             1.9                2.4
          N/P                  3            1.0           1.10             0.8                1.2
          P/D                  3            5.1           1.15             3.8                6.7
          PAH/TOC              3            0.008         1.05             0.008              0.009
          TOT/TOC              3            0.9           1.09             0.8                1.1
          BA/CR                2            4.3           1.01             4.2                4.3
          BA/V                 2            3.0           1.06             2.7                3.3
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BEAUFORT SEA MONITORING PROGRAM-- GEOMETRIC MEANS
FOR CHEMICAL CONCENTRATIONS BY REGION AND YEAR

DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

-- REGION=CAMDEN BAY AREA --

TYPE OF CONCENTRATION	GEOMETRIC MEAN YEAR 1	GEOMETRIC MEAN YEAR 2	GEOMETRIC MEAN YEAR 3
N	0.03	0.08	0.07
F	0.006	0.023	0.021
P	0.06	0.07	0.07
D	0.005	0.010	0.012
PAH	0.03	0.06	0.05
PHYT	0.009	0.021	0.019
PRIS	0.022	0.037	0.041
LALK	0.36	0.56	0.45
TALK	1.29	4.25	3.14
TOT	5.08	9.75	10.74
BA		389	260
CD		0.20	0.14
CR		76	85
CU		27.0	22.5
PB		18.9	14.2
V		118	110
ZN		96	89
TOC	3.61	9.21	5.79
MUD	10.9	35.5	29.5
FFPI	78	70	75
ISO/ALK	0.469	0.382	0.400
LALK/TAL	0.283	0.132	0.144
PRIS/PHY	2.5	1.7	2.0
N/P	0.5	1.1	1.0
P/D	11.9	7.7	5.8
PAH/TOC	0.008	0.008	0.009
TOT/TOC	1.1	1.1	1.9
BA/CR		5.1	3.1
BA/V		3.3	2.4

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                 BEAUFORT SEA MONITORING PROGRAM-- GEOMETRIC MEANS
                  FOR CHEMICAL CONCENTRATIONS BY REGION AND YEAR

      DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
                 DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

------------------------------------------------- REGION=FOGGY ISLAND BAY AREA --------------------------------------------------

                    TYPE OF          GEOMETRIC MEAN    GEOMETRIC MEAN    GEOMETRIC MEAN
                    CONCENTRATION        YEAR 1            YEAR 2            YEAR 3

                      N                   0.13              0.08              0.09
                      F                  0.030             0.015             0.022
                      P                   0.15              0.06              0.08
                      D                  0.025             0.008             0.017
                      PAH                 0.08              0.08              0.07
                      PHYT               0.018             0.015             0.017
                      PRIS               0.042             0.028             0.039
                      LALK                0.63              0.54              0.44
                      TALK                3.24              2.89              2.90
                      TOT                11.18              7.71              8.15
                      BA                                     317               344
                      CD                                    0.18              0.19
                      CR                                      70                80
                      CU                                    21.5              20.1
                      PB                                    13.1               9.5
                      V                                      111               115
                      ZN                                      88                87
                      TOC                 5.47              9.48              5.31
                      MUD                 22.3              18.2              23.5
                      FFPI                  81                75                74
                      ISO/ALK            0.435             0.418             0.418
                      LALK/TAL           0.195             0.187             0.153
                      PRIS/PHY             2.3               1.8               2.3
                      N/P                  0.9               1.0               1.2
                      P/D                  5.8               9.3               4.5
                      PAH/TOC            0.010             0.008             0.013
                      TOT/TOC              1.5               0.8               1.5
                      BA/CR                                  4.6               4.3
                      BA/V                                   2.8               3.0
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BEAUFORT SEA MONITORING PROGRAM-- GEOMETRIC MEANS
FOR CHEMICAL CONCENTRATIONS BY REGION AND YEAR

DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

-- REGION=KUPARUK RIVER BAY AREA --

TYPE OF CONCENTRATION	GEOMETRIC MEAN YEAR 1	GEOMETRIC MEAN YEAR 2	GEOMETRIC MEAN YEAR 3
N	0.29	0.22	0.24
F	0.045	0.041	0.048
P	0.32	0.16	0.17
D	0.055	0.032	0.046
PAH	0.19	0.17	0.13
PHYT	0.026	0.043	0.042
PRIS	0.055	0.060	0.094
LALK	0.90	0.94	0.99
TALK	6.47	5.86	7.26
TOT	14.28	19.74	23.20
BA		217	330
CD		0.21	0.17
CR		68	85
CU		20.0	20.5
PB		10.9	9.3
V		107	118
ZN		88	92
TOC	9.00	10.71	9.34
MUD	25.3	50.1	49.8
FFPI	78	72	79
ISO/ALK	0.431	0.500	0.453
LALK/TAL	0.139	0.161	0.136
PRIS/PHY	2.1	1.4	2.3
N/P	0.9	1.4	1.4
P/D	5.8	5.0	3.7
PAH/TOC	0.013	0.016	0.014
TOT/TOC	1.0	1.8	2.5
BA/CR		3.2	3.9
BA/V		2.0	2.8

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                   BEAUFORT SEA MONITORING PROGRAM-- GEOMETRIC MEANS
                     FOR CHEMICAL CONCENTRATIONS BY REGION AND YEAR

           DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
                   DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

----------------------------------------------- REGION=EAST HARRISON BAY AREA -----------------------------------------------

           TYPE OF          GEOMETRIC MEAN      GEOMETRIC MEAN      GEOMETRIC MEAN
           CONCENTRATION        YEAR 1              YEAR 2              YEAR 3

             N                   0.22                0.34                0.44
             F                  0.045               0.078               0.097
             P                   0.21                0.20                0.25
             D                  0.046               0.042               0.058
             PAH                 0.13                0.19                0.17
             PHYT               0.023               0.032               0.067
             PRIS               0.056               0.065               0.128
             LALK                1.30                0.75                1.28
             TALK                3.93                7.25               10.07
             TOT                13.41               20.84               38.48
             BA                                       312                 317
             CD                                      0.18                0.14
             CR                                        80                 101
             CU                                      24.7                25.2
             PB                                      14.2                12.0
             V                                        127                 133
             ZN                                       102                  97
             TOC                 8.50                9.87                9.17
             MUD                 38.3                43.3                53.8
             FFPI                  79                  78                  81
             ISO/ALK            0.472               0.488               0.522
             LALK/TAL           0.331               0.103               0.127
             PRIS/PHY             2.4                 2.0                 1.9
             N/P                  1.1                 1.7                 1.8
             P/D                  4.6                 4.9                 4.3
             PAH/TOC            0.021               0.019               0.019
             TOT/TOC              2.3                 2.1                 4.0
             BA/CR                                    3.9                 3.1
             BA/V                                     2.4                 2.4
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BEAUFORT SEA MONITORING PROGRAM-- GEOMETRIC MEANS
FOR CHEMICAL CONCENTRATIONS BY REGION AND YEAR

DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

--- REGION=WEST HARRISON BAY AREA ---

TYPE OF CONCENTRATION	GEOMETRIC MEAN YEAR 1	GEOMETRIC MEAN YEAR 2	GEOMETRIC MEAN YEAR 3
N	0.58	0.36	0.40
F	0.087	0.054	0.070
P	0.42	0.24	0.22
D	0.085	0.044	0.052
PAH	0.17	0.15	0.17
PHYT	0.031	0.043	0.047
PRIS	0.085	0.114	0.109
LALK	1.28	1.13	0.98
TALK	5.28	7.94	7.92
TOT	16.07	22.55	23.25
BA		637	420
CD		0.15	0.12
CR		88	140
CU		18.8	24.1
PB		13.1	10.8
V		105	128
ZN		86	103
TOC	12.80	11.21	7.51
MUD	34.4	37.6	40.8
FFPI	85	81	81
ISO/ALK	0.562	0.528	0.536
LALK/TAL	0.244	0.142	0.124
PRIS/PHY	2.8	2.7	2.3
N/P	1.4	1.5	1.8
P/D	5.8	5.4	4.2
PAH/TOC	0.014	0.014	0.023
TOT/TOC	1.3	2.2	3.1
BA/CR		7.2	3.0
BA/V		6.1	3.3

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BEAUFORT SEA MONITORING PROGRAM-- GEOMETRIC MEANS FOR CHEMICAL CONCENTRATIONS BY REGION AND YEAR

DATA FOR HYDROCARBONS AND AUX VARS ARE FROM BULK SEDIMENTS, YEARS 1,2,3
DATA FOR METALS ARE FROM FINE SEDIMENTS, YEARS 2,3

-- REGION=ENDICOTT FIELD --

TYPE OF CONCENTRATION	GEOMETRIC MEAN YEAR 1	GEOMETRIC MEAN YEAR 2	GEOMETRIC MEAN YEAR 3
N	0.09	0.03	0.05
F	0.023	0.012	0.012
P	0.11	0.03	0.05
D	0.023	0.005	0.012
PAH	0.08	0.03	0.03
PHYT	0.015	0.008	0.008
PRIS	0.036	0.015	0.020
LALK	0.52	0.29	0.26
TALK	2.49	1.46	1.41
TOT	9.53	3.43	3.58
BA		265	321
CD		0.25	0.21
CR		62	74
CU		18.7	17.6
PB		10.4	9.1
V		93	101
ZN		77	79
TOC	7.47	4.21	4.02
MUD	21.0	6.7	9.3
FFPI	78	71	77
ISO/ALK	0.486	0.382	0.364
LALK/TAL	0.209	0.200	0.185
PRIS/PHY	2.4	1.9	2.1
N/P	0.8	1.0	1.1
P/D	5.0	6.5	4.0
PAH/TOC	0.009	0.008	0.009
TOT/TOC	1.1	0.8	0.9
BA/CR		4.2	4.3
BA/V		2.8	3.2

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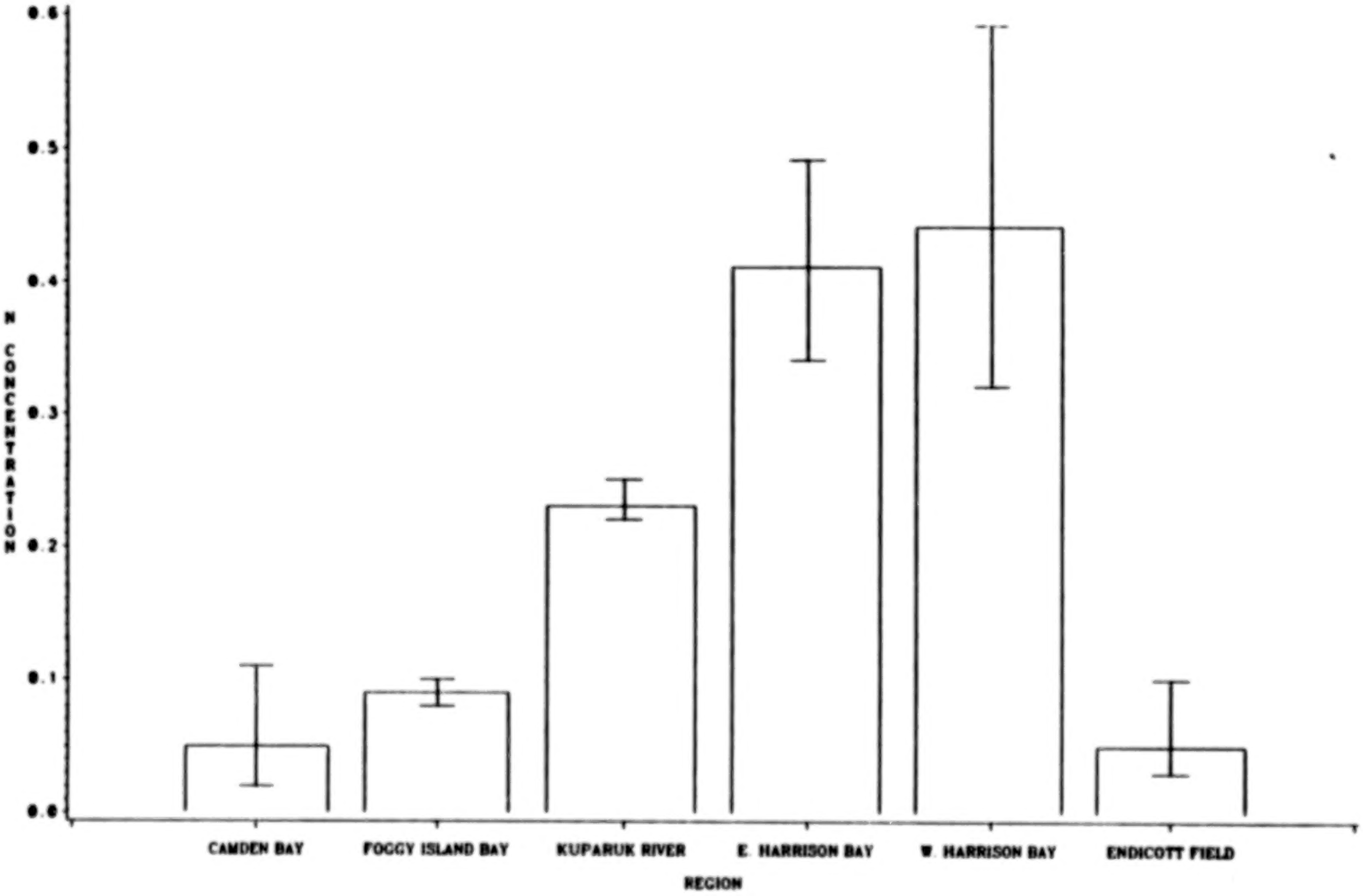
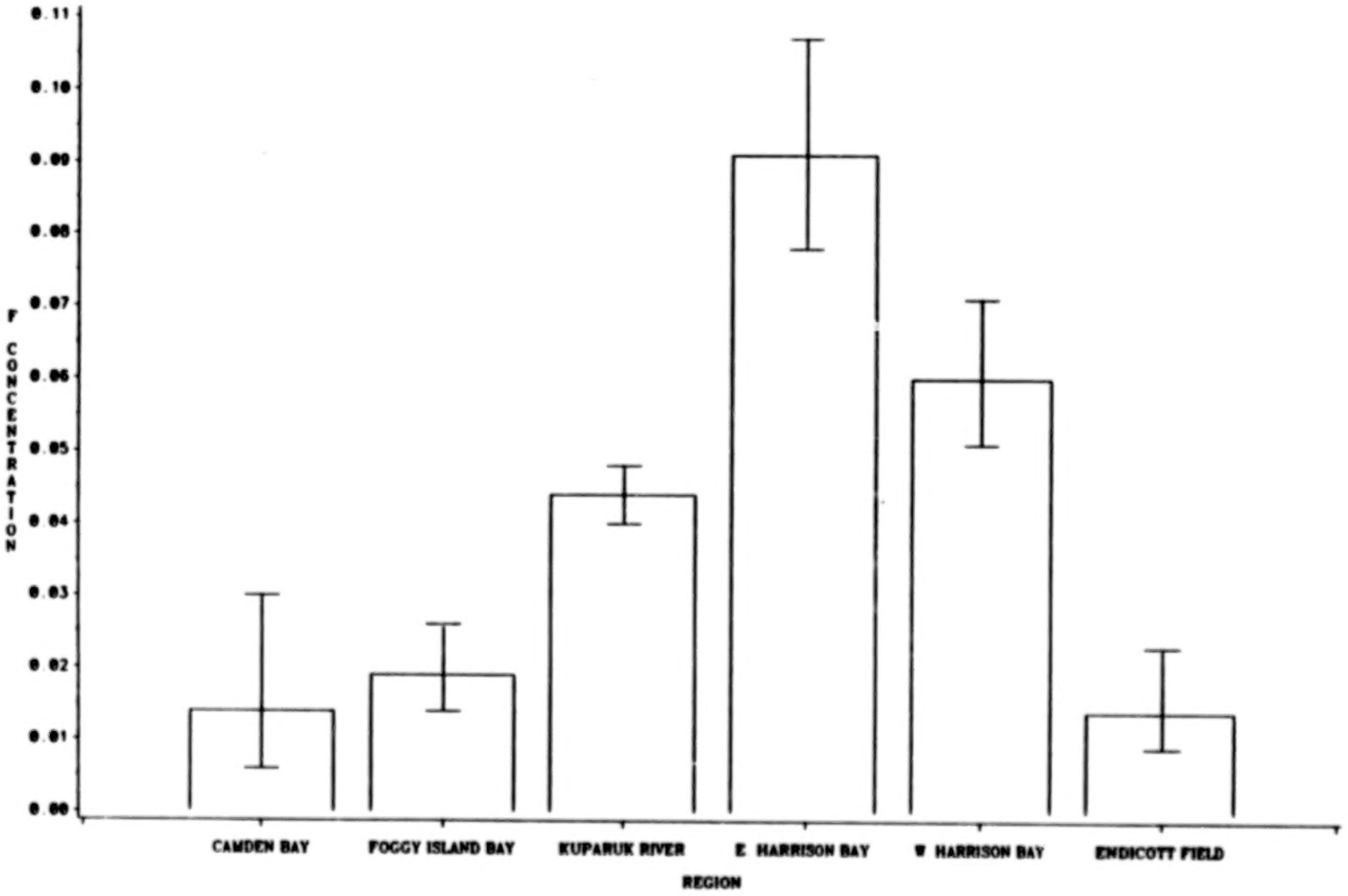
BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN N CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



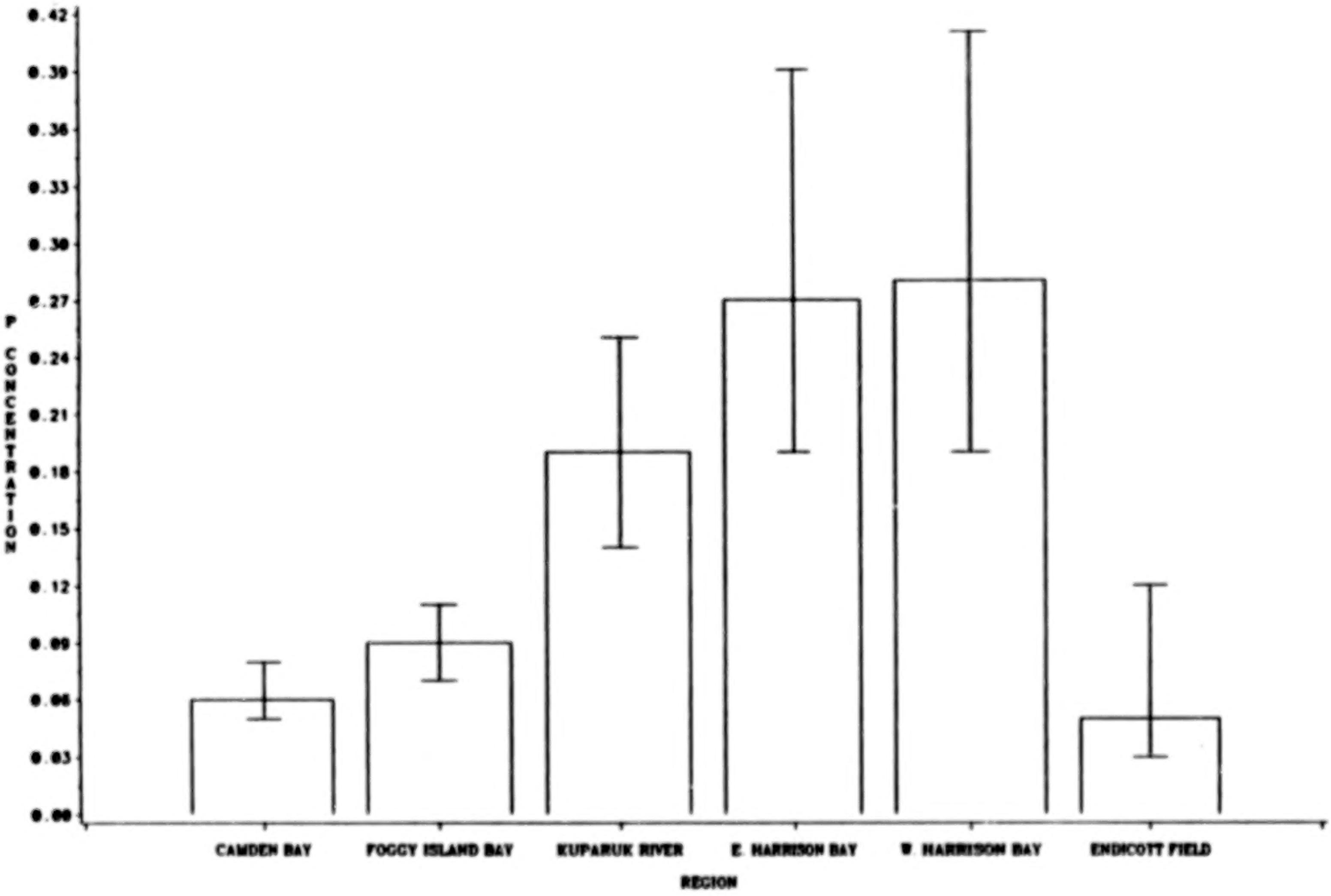
BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN F CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN P CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



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BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN D CONCENTRATIONS
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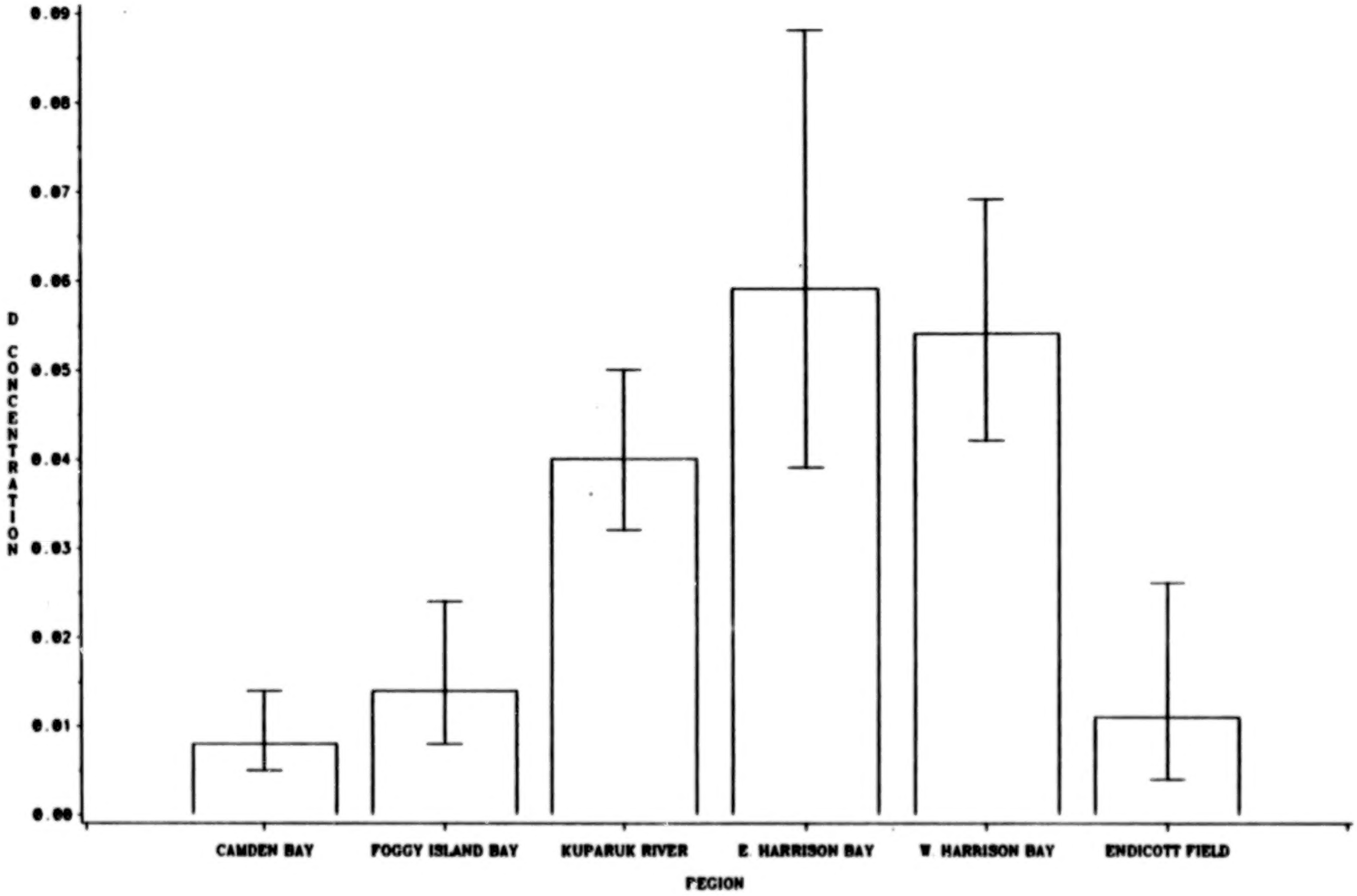

BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN PAH CONCENTRATIONS
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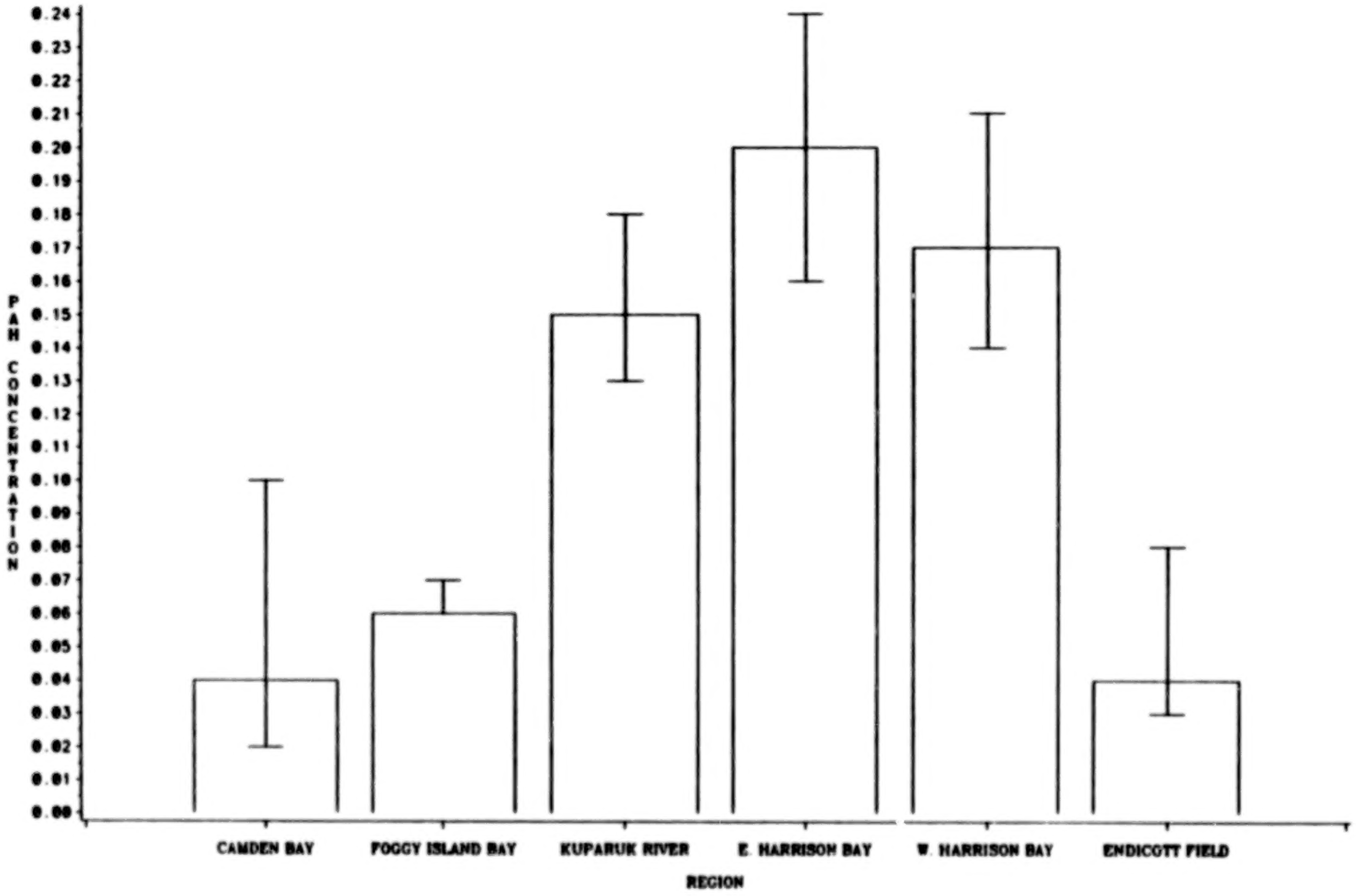

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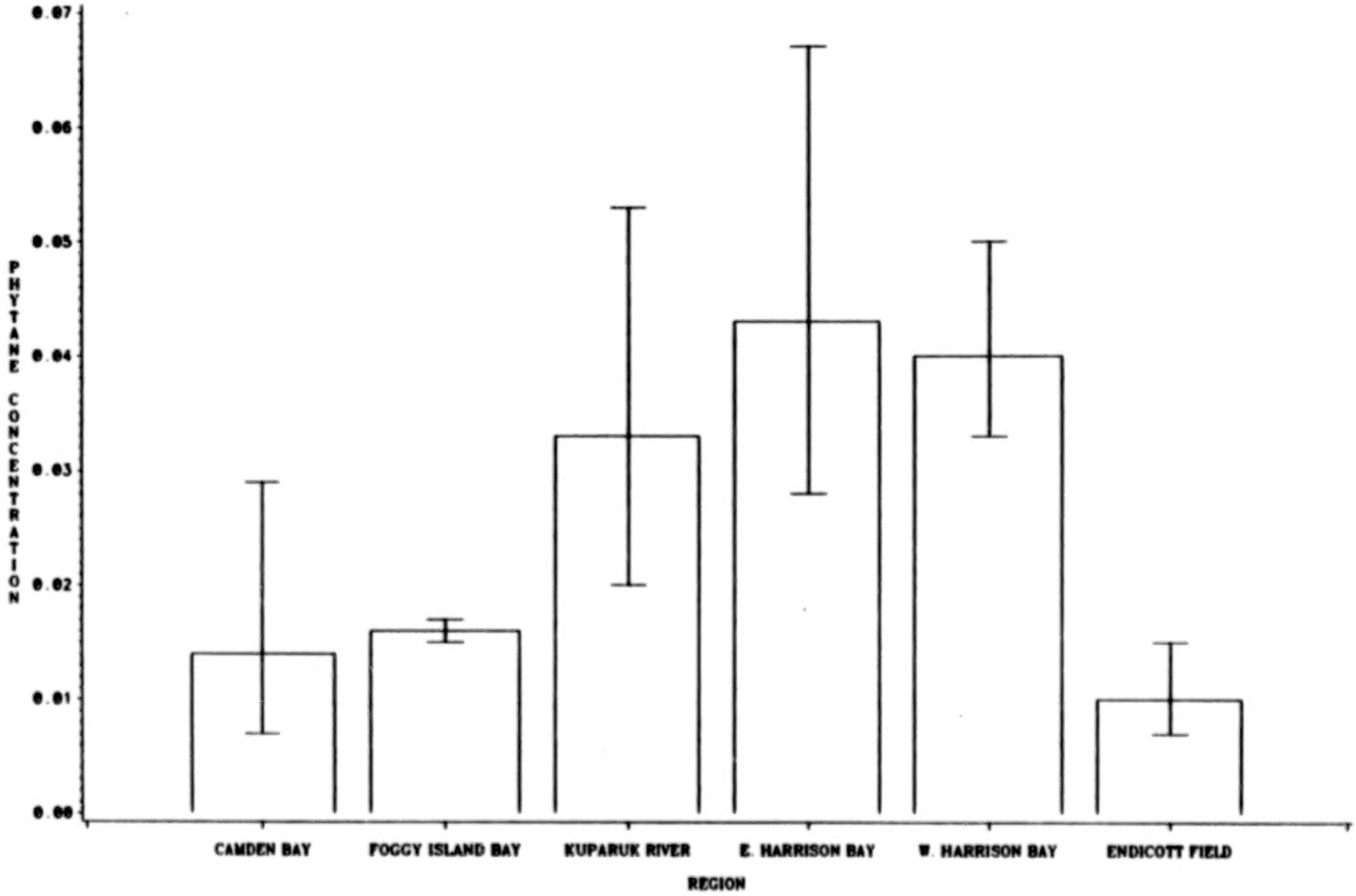

BEAUFORT SEA MONITORING PROGRAM- - SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN PHYTANE CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS

BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN PRISTANE CONCENTRATIONS
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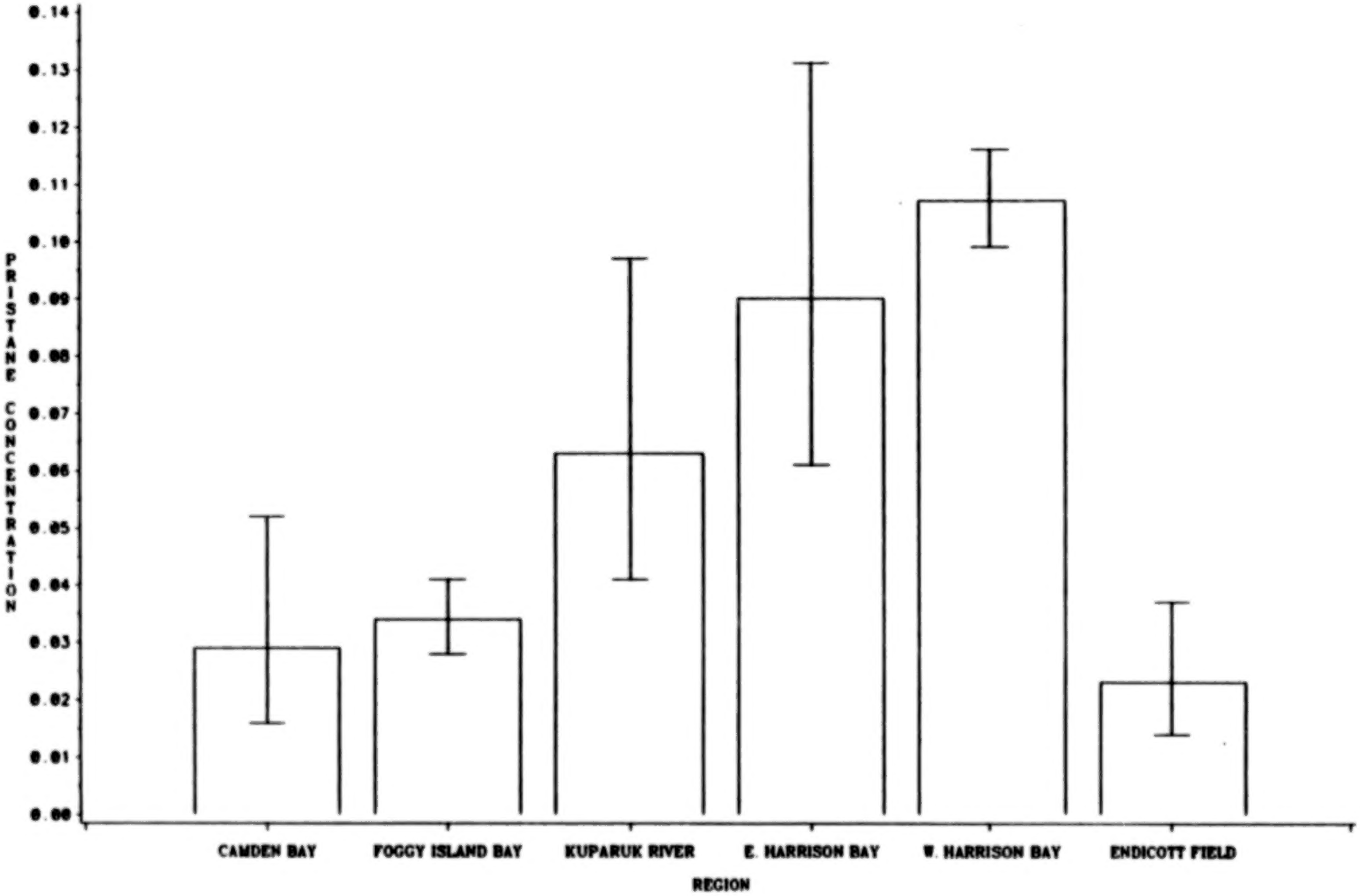

BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN LALK CONCENTRATIONS
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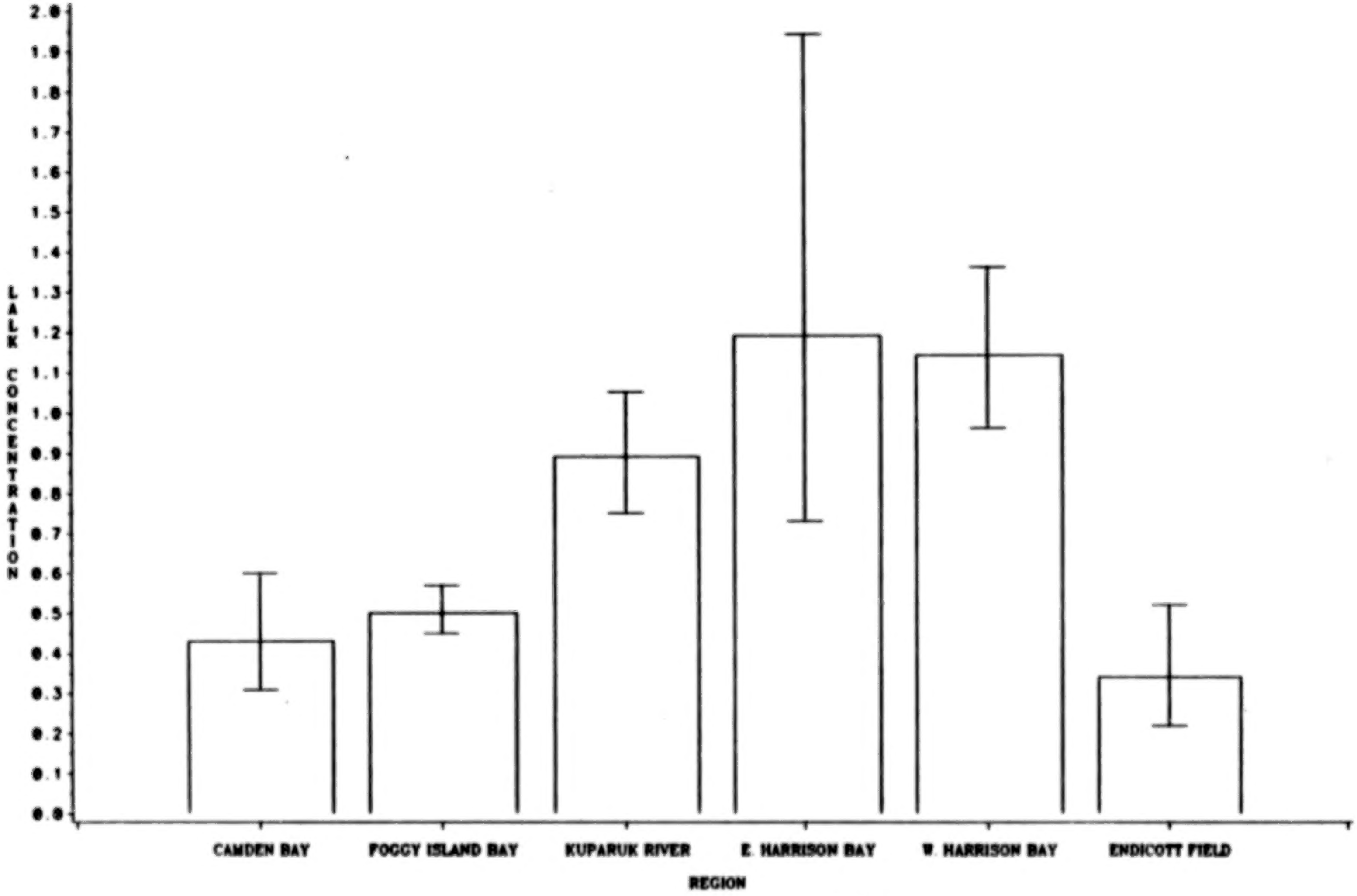
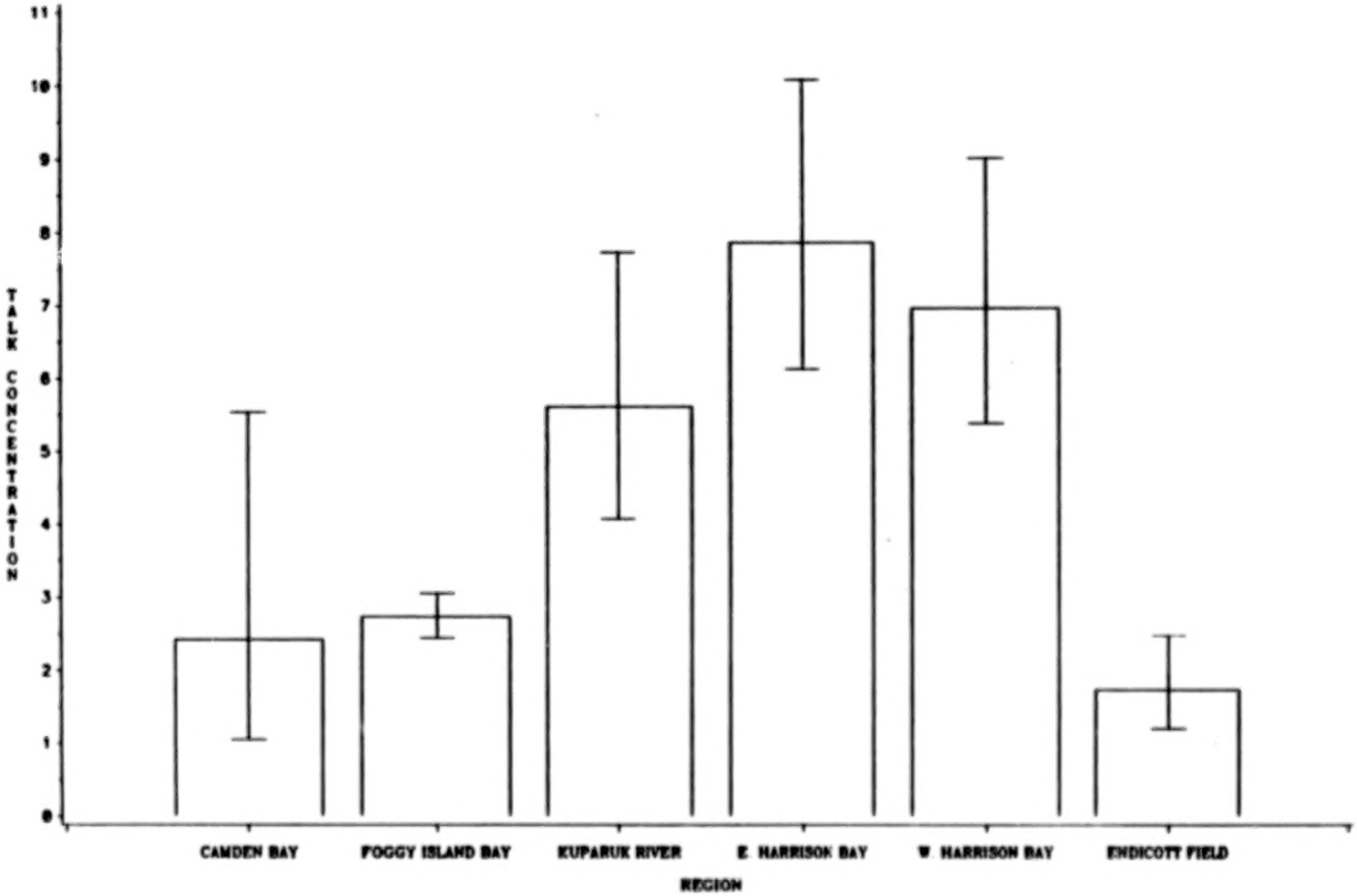
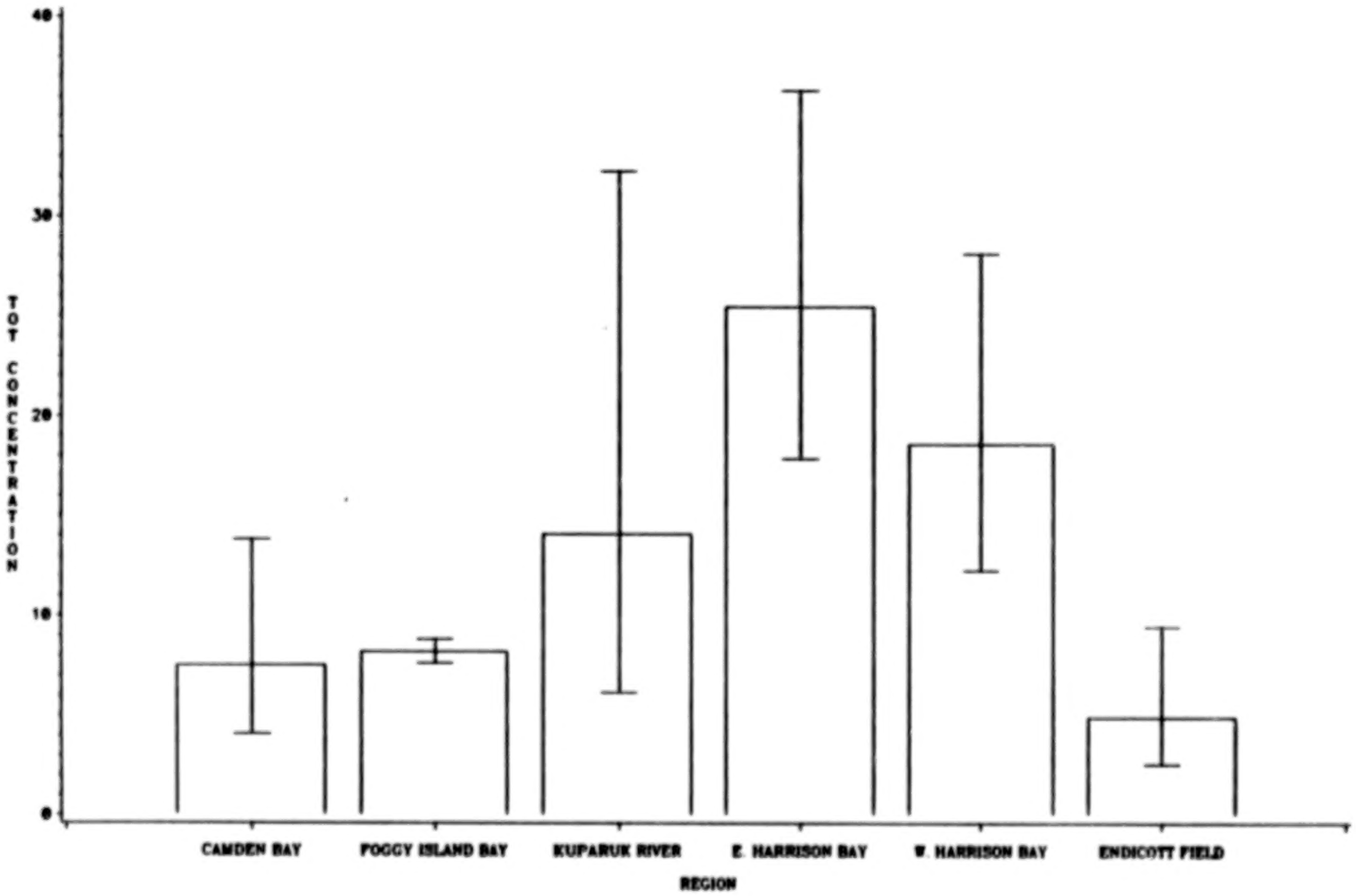




BEAUFORT SEA MONITORING PROGRAM- - SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN TALK CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN TOT CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS

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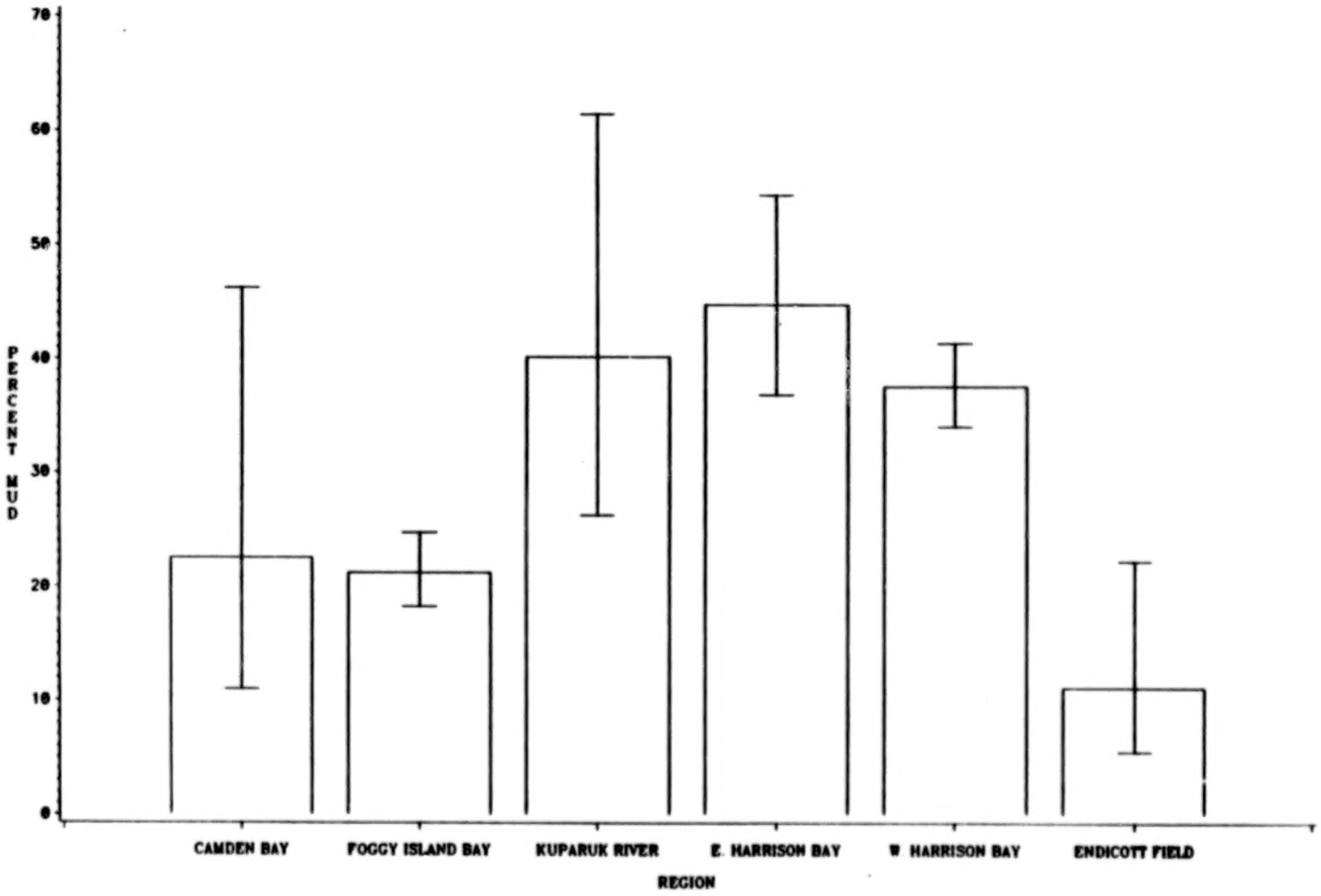
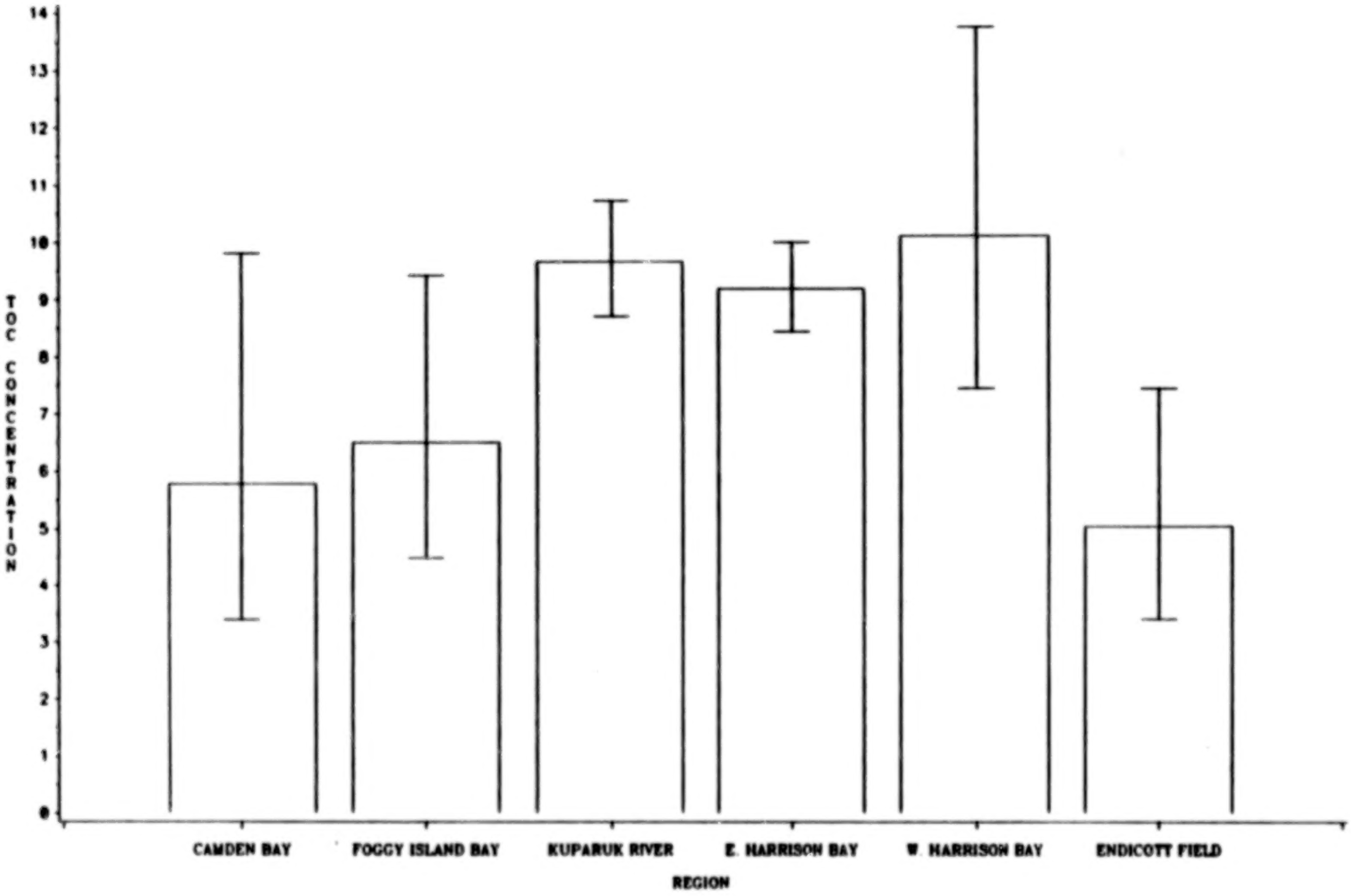
BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEANS OF PERCENT MUD
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN TOC CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



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BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN BA CONCENTRATIONS
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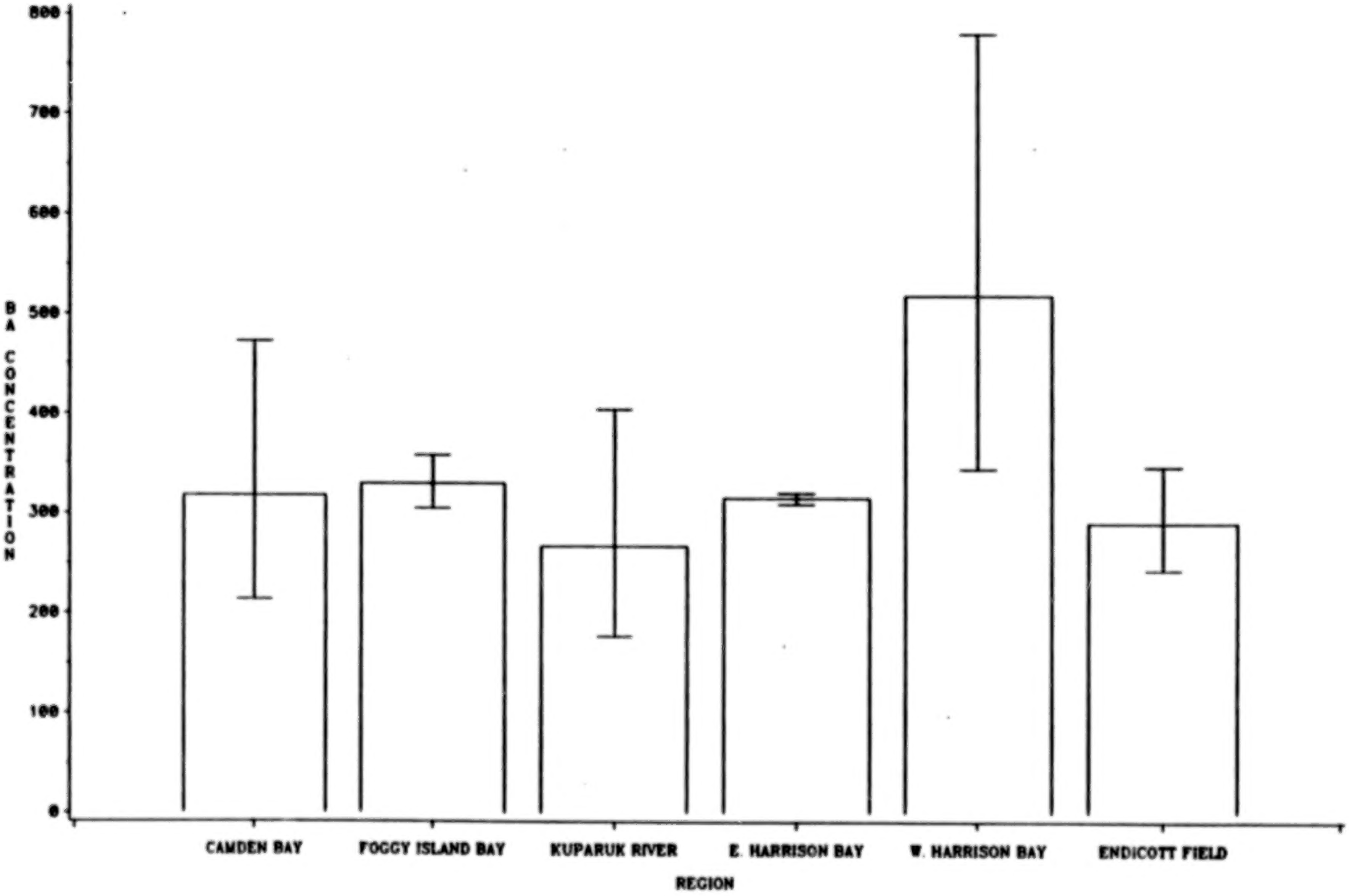

BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN CR CONCENTRATIONS
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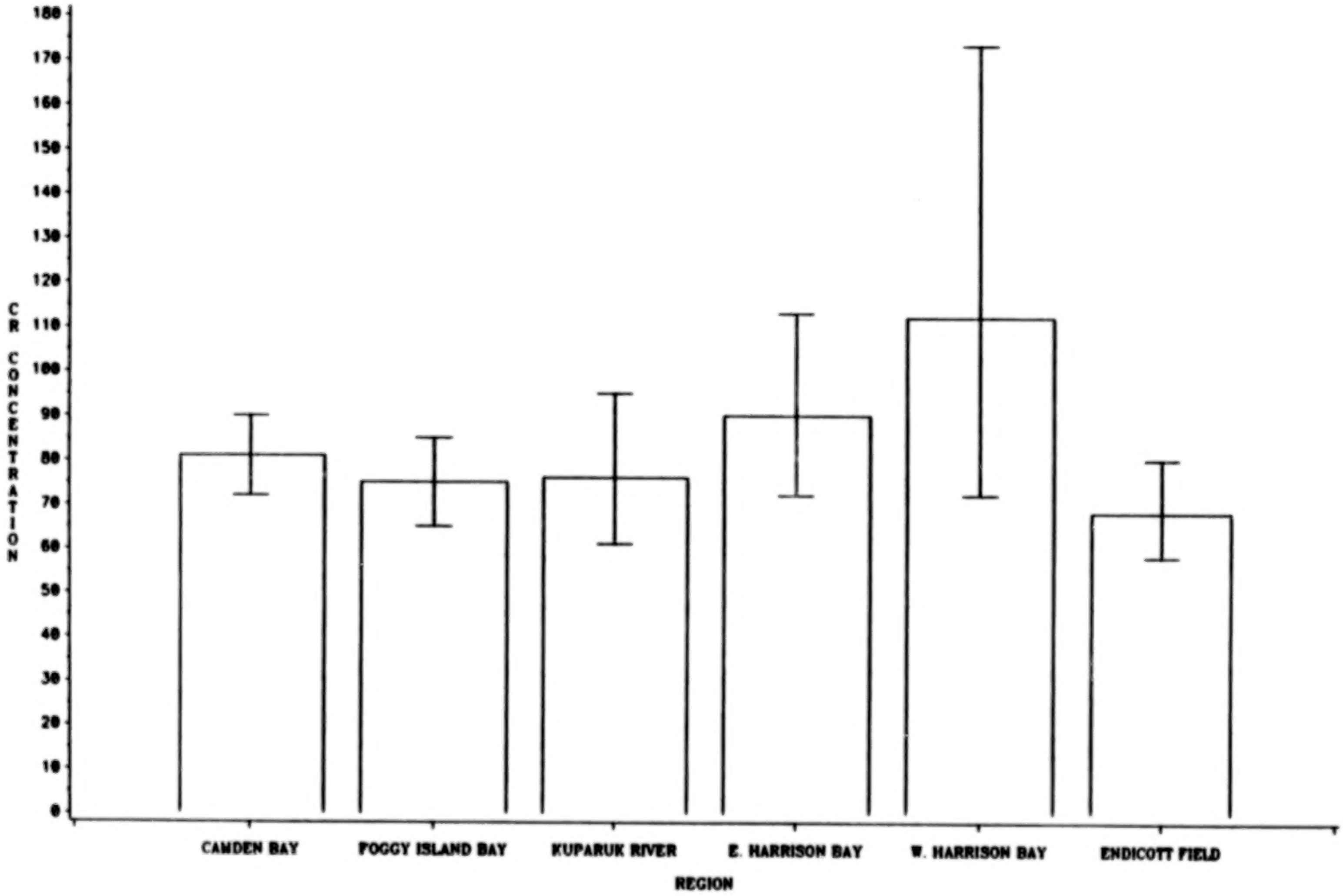
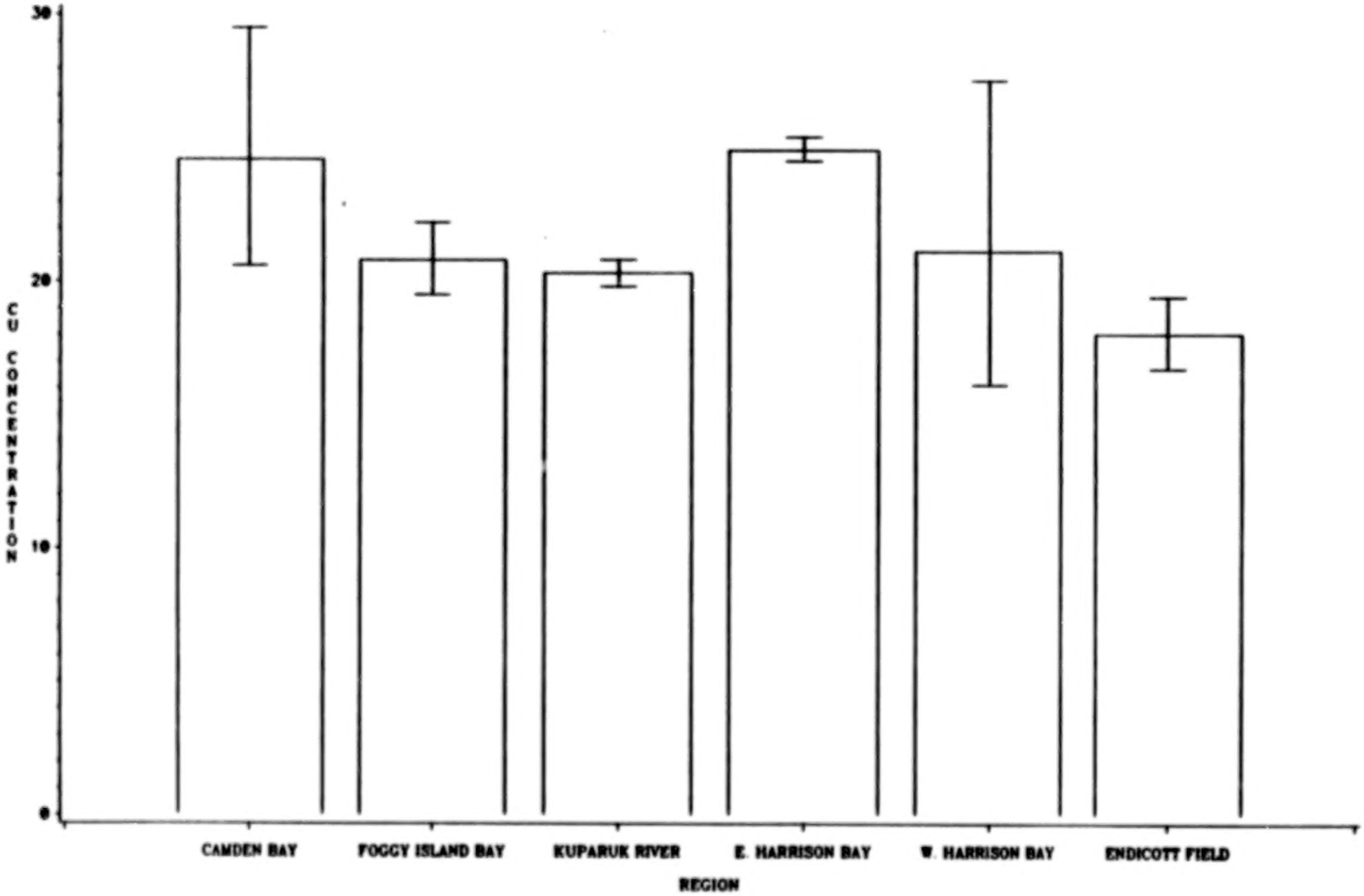
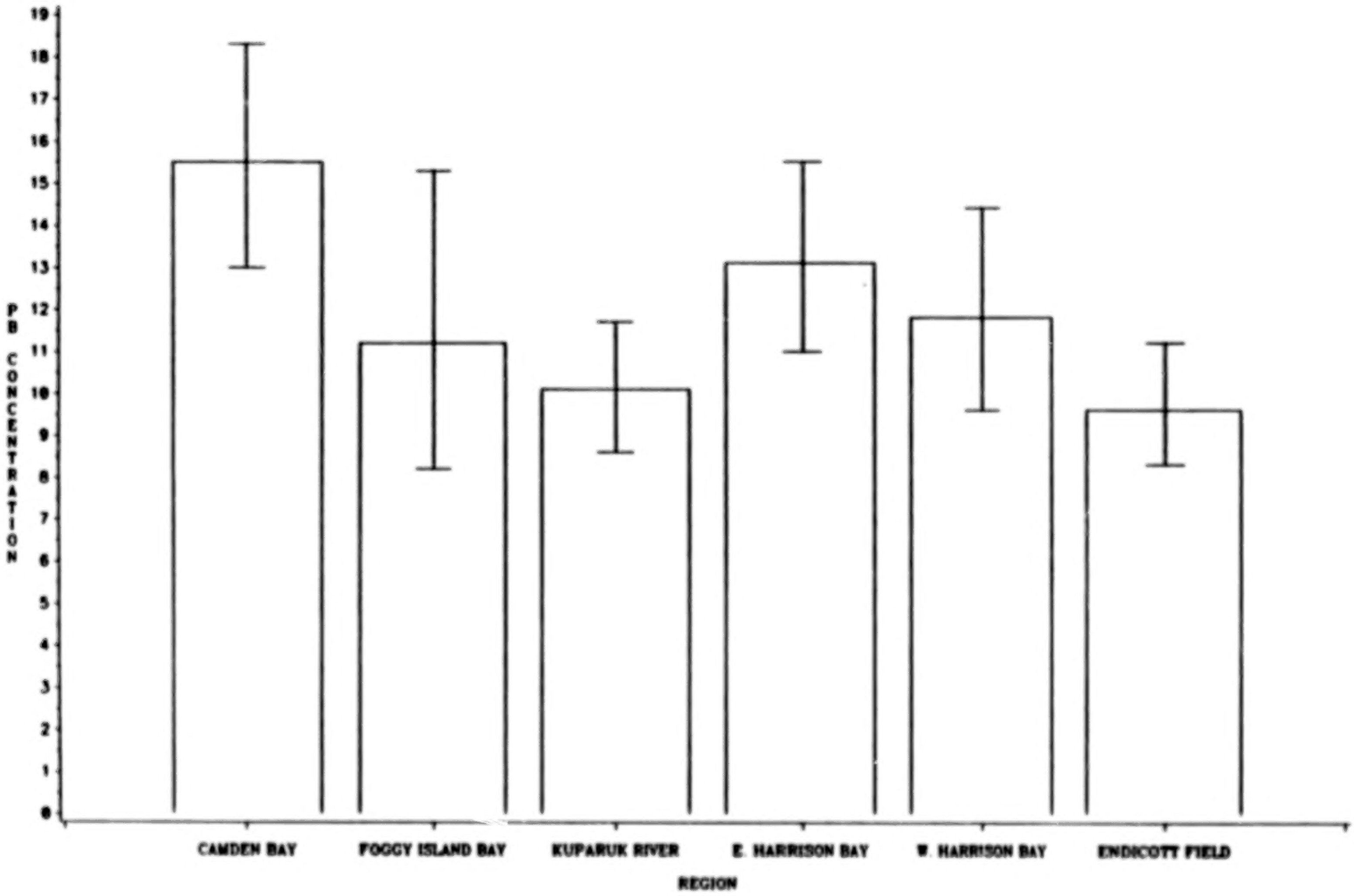


BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN CU CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



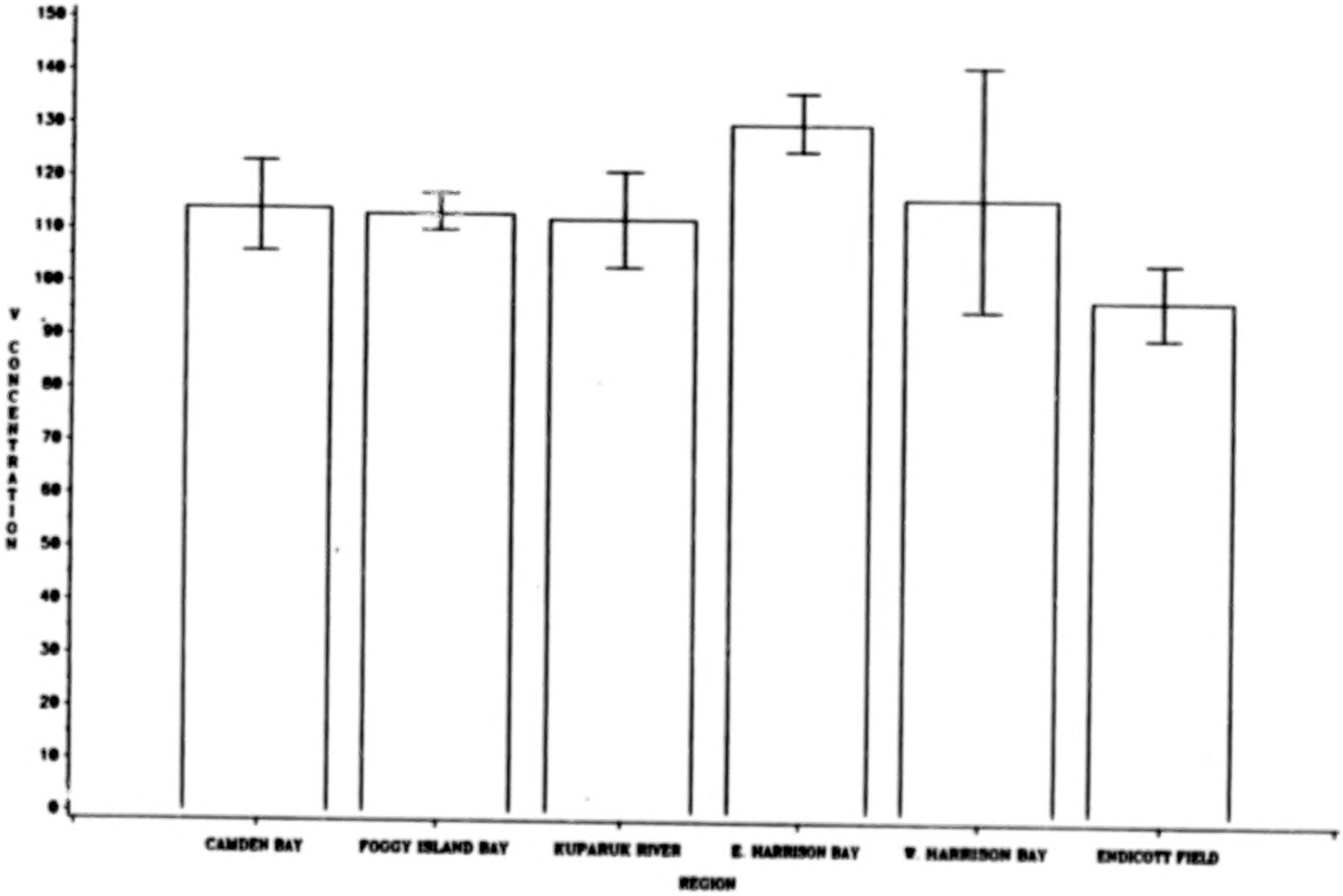


BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN PB CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS

BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN V CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



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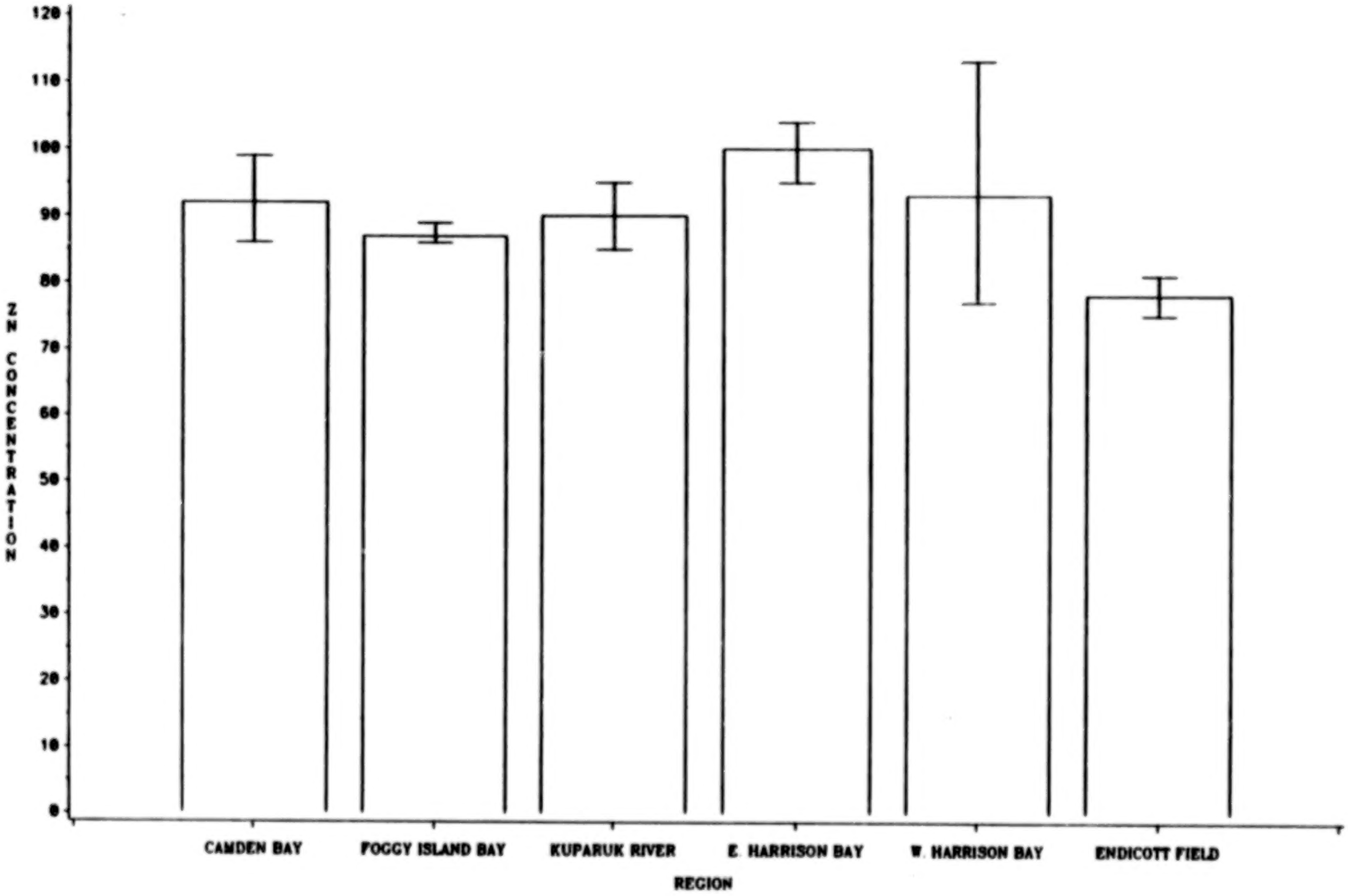
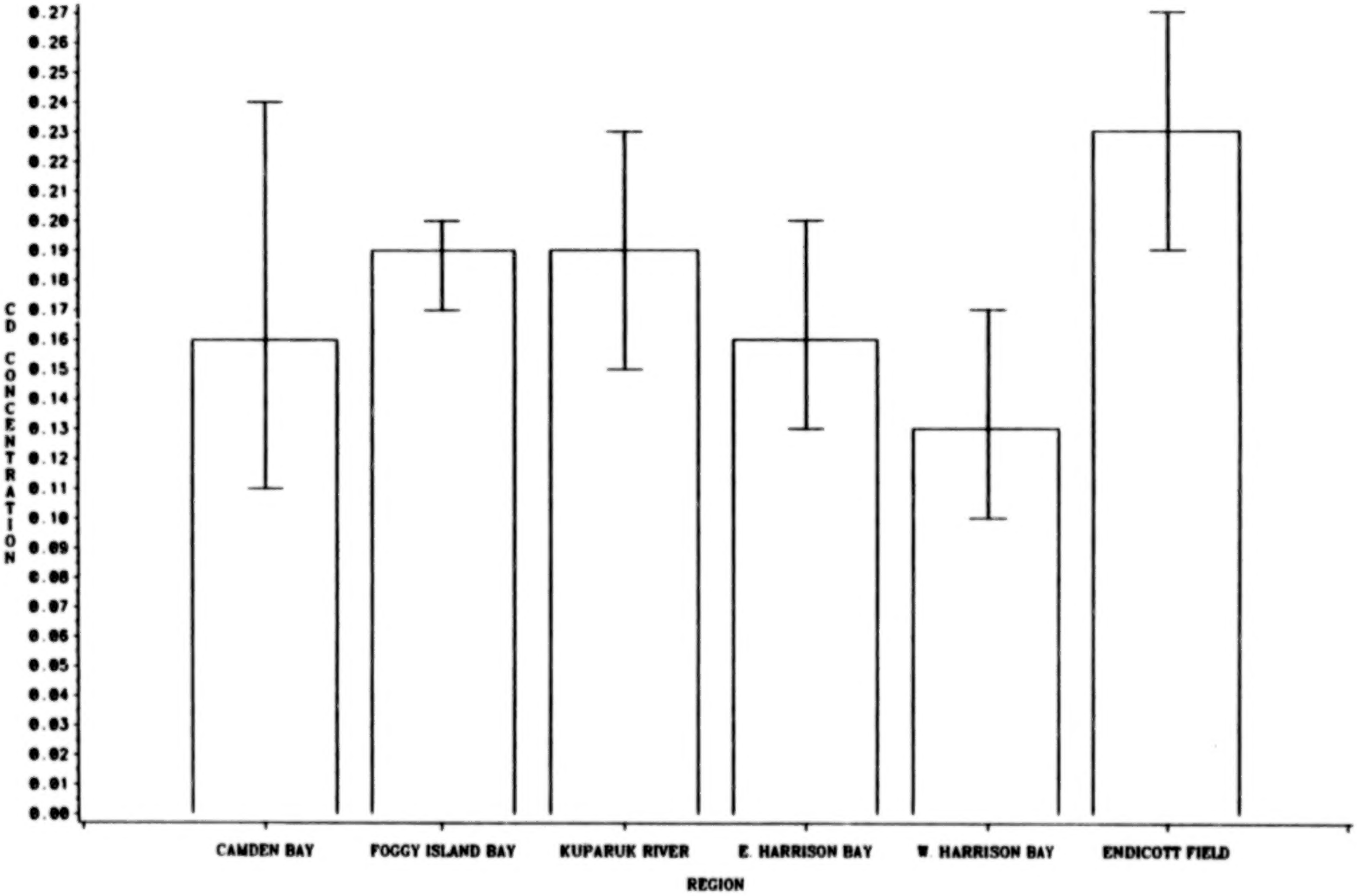
BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN ZN CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



BEAUFORT SEA MONITORING PROGRAM-- SUMMARY STATISTICS BY REGION

BAR HEIGHTS ARE GEOMETRIC MEAN CD CONCENTRATIONS
BRACKETS REPRESENT 95% CONFIDENCE LIMITS



SECTION 4

ANALYTE CONCENTRATIONS FOR INDIVIDUAL REPLICATES AND COMPOSITES FOR EACH STATION AND YEAR

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                    BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
                          RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

                                     TYPE OF SEDIMENT = BULK

------------------------------------------ YEAR=1 SITETYPE=OCEANIC ------------------------------------------

STATION   SAMPLE    N       F       P       D      PAH    PHYTANE  PRISTANE  LALK   TALK    TOT

  2E       100    0.02   0.008   0.03   0.004   0.01    0.004    0.009    0.28   0.80    2.94
  2E       100     .       .       .      .       .       .        .        .      .       .
  2E       100     .       .       .      .       .       .        .        .      .       .
  2E       100     .       .       .      .       .       .        .        .      .       .
  2E       100     .       .       .      .       .       .        .        .      .       .
  2E       100     .       .       .      .       .       .        .        .      .       .
  2F       100    0.05   0.019   0.09   0.009   0.04    0.013    0.028    0.47   1.63    6.38
  2F       100    0.03   0.010   0.07   0.007   0.04    0.010    0.027    0.40   1.29    5.33
  2F       100    0.02   0.004   0.06   0.002   0.03    0.010    0.028    0.38   1.39    5.30
  2F       100    0.01   0.001   0.04     .     0.02    0.008    0.024    0.33   1.03    4.38
  2F       100    0.04   0.010   0.07   0.007   0.04    0.010    0.028    0.36   1.41    5.65
  2F       100    0.04   0.009   0.08   0.007   0.04    0.012    0.024    0.41   1.78    6.49
  3A       100    0.14   0.037   0.18   0.021   0.09    0.017    0.035    0.49   2.78    9.81
  3A       100     .       .       .      .       .       .        .        .      .       .
  3A       100     .       .       .      .       .       .        .        .      .       .
  3A       100     .       .       .      .       .       .        .        .      .       .
  3A       100     .       .       .      .       .       .        .        .      .       .
  3A       100     .       .       .      .       .       .        .        .      .       .
  3B       100    0.08   0.020   0.08   0.013   0.01    0.018    0.040    0.67   3.02   11.33
  3B       100    0.12   0.024   0.15   0.017   0.09    0.016    0.032    0.59   3.01    9.84
  3B       100    0.19   0.044   0.19   0.026   0.07    0.024    0.047    0.77   4.84   14.90
  3B       100    0.18   0.028   0.20   0.021   0.11    0.027    0.056    1.02   5.58   16.84
  3B       100    0.20   0.025   0.18   0.018   0.08    0.032    0.068    1.18   6.12   18.44
  3B       100    0.14   0.035   0.19   0.026   0.13    0.020    0.040    0.73   3.90   12.05
  4A       100    0.20   0.047   0.21   0.045   0.18    0.024    0.044    0.57   3.10   10.70
  4A       100    0.15   0.025   0.17   0.035   0.10    0.018    0.040    0.88   3.85   14.14
  4A       100    0.18   0.053   0.18   0.047   0.09    0.018    0.048    0.81   3.15   14.50
  4A       100    0.19   0.056   0.17   0.046   0.09    0.016    0.051    0.82   3.79   13.08
  4A       100    0.16   0.049   0.18   0.042   0.10    0.017    0.049    0.85   3.42   11.17
  4A       100    0.19   0.041   0.17   0.038   0.10    0.018    0.046    0.59   3.18   10.98
  4B       100    0.04   0.010   0.04   0.011   0.01    0.007    0.018    0.24   0.82    3.82
  4B       100     .       .       .      .       .       .        .        .      .       .
  4B       100     .       .       .      .       .       .        .        .      .       .
  4B       100     .       .       .      .       .       .        .        .      .       .
  4B       100     .       .       .      .       .       .        .        .      .       .
  4B       100     .       .       .      .       .       .        .        .      .       .
  4C       100    0.07   0.021   0.08   0.020   0.05    0.012    0.028    0.51   1.88    6.87
  4C       100     .       .       .      .       .       .        .        .      .       .
  4C       100     .       .       .      .       .       .        .        .      .       .
  4C       100     .       .       .      .       .       .        .        .      .       .
  4C       100     .       .       .      .       .       .        .        .      .       .
  4C       100     .       .       .      .       .       .        .        .      .       .
  510      100     .       .       .      .       .       .        .        .      .       .
  510      100    0.13   0.036   0.18   0.033   0.08    0.018    0.053    0.71   3.59   13.96
  510      100     .       .       .      .       .       .        .        .      .       .
  510      100     .       .       .      .       .       .        .        .      .       .
  510      100     .       .       .      .       .       .        .        .      .       .
  510      100     .       .       .      .       .       .        .        .      .       .
  51       100    0.04   0.010   0.05   0.011   0.04    0.007    0.018    0.30   1.23    4.87
  51       100     .       .       .      .       .       .        .        .      .       .
  51       100     .       .       .      .       .       .        .        .      .       .
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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = BULK

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
S1	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.
S2	100	0.01	0.002	0.02	0.008	0.01	0.003	0.008	0.27	0.88	2.89
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S5	100	0.13	0.032	0.17	0.032	0.13	0.027	0.086	0.87	3.48	13.27
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
5A	100	0.29	0.033	0.26	0.028	0.16	0.041	0.085	1.00	5.92	10.88
5A	100	.	.	.	.	.	.	.	.	.	.
5A	100	.	.	.	.	.	.	.	.	.	.
5A	100	.	.	.	.	.	.	.	.	.	.
5A	100	.	.	.	.	.	.	.	.	.	.
5A	100	.	.	.	.	.	.	.	.	.	.
5B	100	0.22	0.085	0.28	0.067	0.15	0.004	0.010	0.28	0.77	2.78
5B	100	.	.	.	.	.	.	.	.	.	.
5B	100	.	.	.	.	.	.	.	.	.	.
5B	100	.	.	.	.	.	.	.	.	.	.
5B	100	.	.	.	.	.	.	.	.	.	.
5B	100	.	.	.	.	.	.	.	.	.	.
5D	100	0.38	0.040	0.34	0.085	0.17	0.041	0.087	1.40	12.05	39.24
5D	100	0.40	0.055	0.42	0.078	0.20	0.038	0.081	1.42	13.16	42.23
5D	100	0.49	0.056	0.39	0.070	0.17	0.041	0.089	1.42	12.39	39.46
5D	100	0.31	0.060	0.40	0.089	0.22	0.039	0.083	1.23	13.53	47.08
5D	100	0.31	0.038	0.44	0.084	0.31	0.015	0.030	0.50	4.44	16.08
5D	100	0.30	0.053	0.38	0.073	0.37	0.030	0.083	0.89	8.48	28.98
5E	100	0.16	0.045	0.17	0.039	0.08	0.019	0.044	0.81	2.35	9.01
5E	100	.	.	.	.	.	.	.	.	.	.
5E	100	.	.	.	.	.	.	.	.	.	.
5E	100	.	.	.	.	.	.	.	.	.	.
5E	100	.	.	.	.	.	.	.	.	.	.
5E	100	.	.	.	.	.	.	.	.	.	.
5E	100	.	.	.	.	.	.	.	.	.	.
5F	100	0.20	0.024	0.22	0.034	0.23	0.032	0.072	1.32	11.43	0.92
5F	100	.	.	.	.	.	.	.	.	.	.
5F	100	.	.	.	.	.	.	.	.	.	.
5F	100	.	.	.	.	.	.	.	.	.	.
5F	100	.	.	.	.	.	.	.	.	.	.
5F	100	.	.	.	.	.	.	.	.	.	.
5G	100	0.13	0.018	0.13	0.018	0.09	0.022	0.056	0.75	2.97	10.93
5G	100	.	.	.	.	.	.	.	.	.	.
5G	100	.	.	.	.	.	.	.	.	.	.
5G	100	.	.	.	.	.	.	.	.	.	.

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                    BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
                      RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

                                    TYPE OF SEDIMENT = BULK

----------------------------------------- YEAR=1 SITETYPE=OCEANIC ----------------------------------------

STATION  SAMPLE    N      F      P      D     PAH   PHYTANE  PRISTANE  LALK   TALK    TOT

  5G      100      .      .      .      .      .      .        .        .      .       .
  5G      100      .      .      .      .      .      .        .        .      .       .
  6A      100    0.44   0.139  0.40   0.129  0.27   0.039    0.096    2.43   8.47   25.38
  6A      100      .      .      .      .      .      .        .        .      .       .
  6A      100      .      .      .      .      .      .        .        .      .       .
  6A      100      .      .      .      .      .      .        .        .      .       .
  6A      100      .      .      .      .      .      .        .        .      .       .
  6A      100      .      .      .      .      .      .        .        .      .       .
  6B      100    3.80   0.018  1.87   0.326  1.25   0.144    0.305    4.02  22.75   88.63
  6B      100      .      .      .      .      .      .        .        .      .       .
  6B      100      .      .      .      .      .      .        .        .      .       .
  6B      100      .      .      .      .      .      .        .        .      .       .
  6B      100      .      .      .      .      .      .        .        .      .       .
  6B      100      .      .      .      .      .      .        .        .      .       .
  6C      100    0.87   0.204  0.78   0.283  0.09   0.023    0.082    1.15   3.32   12.92
  6C      100      .      .      .      .      .     0.020    0.049    1.02   3.04   12.05
  6C      100    0.25   0.085  0.23   0.058  0.18   0.023    0.064    1.09   3.32   12.78
  6C      100    0.43   0.074  0.49   0.089  0.31   0.085    0.125    2.06   7.01   28.49
  6C      100    0.20   0.066  0.26   0.061  0.18   0.024    0.088    0.98   3.57   13.81
  6C      100    0.19   0.048  0.21   0.041  0.12   0.025    0.052    0.94   3.08   14.75
  6D      100    0.05   0.008  0.05   0.012  0.05   0.009    0.022    1.53   2.34    8.74
  6D      100    0.08   0.014  0.07   0.017  0.06   0.013    0.034    2.90   4.19   10.84
  6D      100    0.08   0.010  0.09   0.014  0.04   0.011    0.028    0.73   1.91    5.86
  6D      100    0.14   0.018  0.12   0.019  0.08   0.018    0.046    0.55   2.43   11.18
  6D      100    0.07   0.010  0.07   0.012  0.04   0.011    0.027    0.82   1.81    5.79
  6D      100    0.09   0.027  0.11   0.024  0.07   0.015    0.039    1.07   2.33    6.71
  6F      100    0.47   0.115  0.41   0.082  0.26   0.037    0.091    1.39   7.25   24.21
  6F      100      .      .      .      .      .      .        .        .      .       .
  6F      100      .      .      .      .      .      .        .        .      .       .
  6F      100      .      .      .      .      .      .        .        .      .       .
  6F      100      .      .      .      .      .      .        .        .      .       .
  6F      100      .      .      .      .      .      .        .        .      .       .
  7A      100    0.12     .    0.09     .    0.25   0.011    0.028    0.95   2.00   20.74
  7A      100    0.13     .    0.09   0.019  0.00   0.032    0.085    1.50   6.01   20.24
  7A      100    2.32   0.280  1.34   0.340  0.24   0.029    0.088    0.91   3.93   14.81
  7A      100    0.72   0.135  0.57   0.110  0.39   0.035    0.094    1.58   8.81   24.05
  7A      100    0.85   0.110  0.82   0.101  0.41   0.044    0.128    2.09   9.74   31.89
  7A      100    1.84   0.175  1.83   0.243  0.25   0.039    0.089    1.39   6.08   19.38
  7B      100    0.19   0.042  0.17   0.037  0.13   0.016    0.043    1.17   3.65   11.39
  7B      100      .      .      .      .      .      .        .        .      .       .
  7B      100      .      .      .      .      .      .        .        .      .       .
  7B      100      .      .      .      .      .      .        .        .      .       .
  7B      100      .      .      .      .      .      .        .        .      .       .
  7B      100      .      .      .      .      .      .        .        .      .       .
  7C      100    0.89   0.124  0.81   0.107  0.38   0.045    0.099    1.85   7.33   23.71
  7C      100      .      .      .      .      .      .        .        .      .       .
  7C      100      .      .      .      .      .      .        .        .      .       .
  7C      100      .      .      .      .      .      .        .        .      .       .
  7C      100      .      .      .      .      .      .        .        .      .       .
  7C      100      .      .      .      .      .      .        .        .      .       .
  7E      100    0.89   0.071  0.50   0.089  0.24   0.041    0.142    1.72   7.84    2.80
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                  BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
                      RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

                                  TYPE OF SEDIMENT = BULK

------------------------------------------------ YEAR=1 SITETYPE=OCEANIC ------------------------------------------------

 STATION   SAMPLE     N        F        P       D        PAH    PHYTANE   PRISTANE   LALK    TALK    TOT

   7E       100       .        .        .       .         .        .         .         .       .       .
   7E       100       .        .        .       .         .        .         .         .       .       .
   7E       100       .        .        .       .         .        .         .         .       .       .
   7E       100       .        .        .       .         .        .         .         .       .       .
   7E       100       .        .        .       .         .        .         .         .       .       .
   7G       100      0.08    0.012    0.53    0.046     0.23     0.048     0.214      1.05    3.99   17.68
   7G       100       .        .        .       .         .        .         .         .       .       .
   7G       100       .        .        .       .         .        .         .         .       .       .
   7G       100       .        .        .       .         .        .         .         .       .       .
   7G       100       .        .        .       .         .        .         .         .       .       .
   7G       100       .        .        .       .         .        .         .         .       .       .
```

BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = BULK

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
1A	AI86P	0.07	0.010	0.08	0.011	0.09	0.019	0.038	0.48	8.30	14.73
1A	AI88P	0.08	0.008	0.07	0.009	0.10	0.018	0.032	0.44	5.34	12.27
1A	AI90P	0.07	0.019	0.07	0.016	0.11	0.024	0.042	0.80	10.44	25.09
1B	AI95P	0.04	0.012	0.04	0.008	0.04	0.017	0.030	0.30	2.62	4.87
1B	AI97P	0.02	0.005	0.03	0.004	0.02	0.014	0.027	0.77	2.58	5.18
1B	AI99P	0.05	0.016	0.04	0.007	0.05	0.016	0.030	0.30	2.47	4.23
1C	AI62P	0.21	0.078	0.17	0.040	0.25	0.078	0.117	1.03	8.93	25.75
1C	AI64P	0.21	0.079	0.15	0.039	0.21	0.078	0.109	1.13	8.37	25.58
1C	AI66P	0.23	0.088	0.18	0.032	0.24	0.098	0.105	0.85	5.90	21.89
1D	AI70P	0.01	.	0.01	0.001	0.01	0.002	0.005	0.08	0.94	1.28
1D	AI72P	0.04	0.002	0.03	0.002	0.04	0.011	0.024	0.37	8.69	11.95
1D	AI74P	0.03	0.002	0.02	0.001	0.02	0.007	0.015	0.28	4.19	7.20
1E	AI78P	0.04	0.008	0.03	0.002	0.03	0.013	0.025	1.05	11.84	18.88
1E	AI80P	0.05	0.012	0.04	0.004	0.04	0.016	0.028	1.03	11.11	24.46
1E	AI82P	0.04	0.007	0.04	0.003	0.04	0.014	0.025	0.99	12.66	24.83
2A	AJ08P	0.26	0.073	0.30	0.031	0.27	0.080	0.115	1.69	17.81	38.21
2A	AJ10P	0.33	0.089	0.41	0.044	0.38	0.074	0.083	1.08	7.87	20.47
2A	AJ12P	0.30	0.120	0.39	0.050	0.28	0.061	0.080	0.93	5.07	12.90
2B	AJ16P	0.04	0.007	0.04	0.003	0.04	0.010	0.019	0.24	1.70	2.95
2B	AJ18P	0.15	0.049	0.14	0.023	0.14	0.060	0.073	0.78	8.50	22.56
2B	AJ20P	0.05	0.015	0.04	0.008	0.05	0.009	0.018	0.21	1.54	2.65
2C	AI54P	0.27	0.081	0.19	0.046	0.23	0.088	0.142	1.25	7.41	14.86
2C	AI56P	0.19	0.084	0.15	0.033	0.22	0.085	0.103	0.99	6.34	15.40
2C	AI58P	0.24	0.083	0.18	0.037	0.22	0.085	0.101	0.91	5.79	12.57
2D	AJ26P	0.13	0.037	0.17	0.034	0.11	0.018	0.032	0.54	6.10	18.97
2D	AJ28P	0.23	0.031	0.03	.	0.09	0.010	0.018	0.29	1.53	5.17
2D	AJ30P	0.01	0.007	0.03	0.008	0.04	0.005	0.009	0.11	0.85	2.49
2E	AJ34P	0.05	0.137	0.07	0.014	0.11	0.036	0.065	0.67	4.83	17.79
2E	AJ36P	0.57	0.180	0.30	0.022	0.28	0.084	0.109	1.46	10.85	34.45
2E	AJ38P	0.19	0.089	0.14	0.033	0.08	0.045	0.081	1.18	4.96	17.14
2F	AI34P	0.02	.	0.08	.	0.02	0.008	0.011	0.31	0.82	1.33
2F	AI36P	0.08	0.014	0.07	0.003	0.03	0.007	0.014	0.44	1.18	2.00
2F	AI38P	0.07	0.009	0.05	0.001	0.02	0.008	0.012	0.35	1.00	1.69
3A	AI22P	0.04	0.040	0.07	0.014	0.08	0.013	0.025	0.33	2.66	5.67
3A	AI24P	0.20	0.038	0.11	0.021	0.13	0.013	0.028	0.38	2.81	4.46
3A	AI26P	0.14	0.021	0.13	0.008	0.09	0.011	0.022	0.31	2.21	4.09
3B	AI14P	0.10	0.030	0.18	0.027	0.09	0.034	0.080	1.12	6.88	20.37
3B	AI16P	0.08	0.025	0.15	0.022	0.07	0.036	0.083	0.98	6.58	20.81
3B	AI18P	0.09	0.029	0.15	0.019	0.08	0.041	0.082	1.16	7.30	21.22
4A	AI06P	0.10	0.008	0.07	0.005	0.03	0.014	0.024	0.80	2.62	7.65
4A	AI08P	0.08	0.007	0.08	0.007	0.05	0.020	0.031	0.69	3.46	11.32
4A	AI10P	0.11	0.012	0.09	0.010	0.07	0.018	0.029	0.32	3.42	10.15
4B	AH97P	0.07	0.021	0.08	0.008	0.05	0.010	0.018	0.52	2.28	6.08
4B	AH99P	0.03	.	0.08	0.003	0.03	0.008	0.013	0.39	1.45	2.80
4B	AI01P	0.05	0.002	0.03	0.008	0.04	0.008	0.013	0.39	1.23	3.82
4C	AJ42P	0.13	0.029	0.11	0.018	0.11	0.022	0.036	0.84	4.09	11.88
4C	AJ44P	0.07	0.015	0.08	0.005	0.08	0.013	0.024	0.56	2.65	7.98
4C	AJ46P	0.09	0.018	0.08	0.009	0.07	0.013	0.023	0.52	2.47	7.52
50	AG41P	0.02	.	0.02	0.002	0.02	0.008	0.011	0.19	0.93	1.78
50	AG43P	0.04	0.008	0.04	0.003	0.08	0.011	0.021	0.36	1.83	5.17
50	AG45P	0.02	0.008	0.02	0.008	0.03	0.007	0.013	0.32	1.45	3.24

BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = BULK

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
510	AG17P	0.07	0.028	0.08	0.018	0.08	0.018	0.029	0.50	2.82	7.88
510	AG19P	0.11	0.038	0.08	0.022	0.08	0.018	0.029	0.47	2.73	7.77
510	AG21P	0.07	0.027	0.07	0.014	0.05	0.017	0.030	0.49	2.79	8.48
51	AG33P	0.03	0.003	0.03	0.002	0.03	0.002	0.004	0.09	0.40	0.83
51	AG35P	0.00	.	0.01	0.001	0.01	0.002	0.004	0.11	0.35	0.72
51	AG37P	0.03	0.008	0.02	0.004	0.03	0.007	0.014	0.23	1.17	2.23
55	AG25P	0.04	0.010	0.04	0.008	0.04	0.010	0.021	0.51	2.28	5.08
55	AG27P	0.08	0.014	0.08	0.013	0.08	0.014	0.027	0.48	2.70	7.19
55	AG29P	0.00	.	0.01	0.001	0.01	0.008	0.014	0.28	1.78	3.85
5A	AG49P	0.22	0.023	0.12	0.019	0.15	0.037	0.048	0.71	4.48	17.34
5A	AG51P	0.18	0.020	0.08	0.013	0.11	0.031	0.051	0.85	4.75	18.04
5A	AG55P	0.14	0.028	0.12	0.017	0.11	0.024	0.053	1.27	5.07	8.39
5B	AG57P	0.50	0.135	0.35	0.072	0.38	0.079	0.087	1.08	7.14	28.22
5B	AG59P	0.43	0.093	0.34	0.054	0.37	0.081	0.088	1.12	8.80	27.41
5B	AG61P	0.48	0.095	0.38	0.084	0.37	0.087	0.104	1.15	7.17	30.51
5D	AG09P	0.22	0.052	0.17	0.042	0.15	0.040	0.044	0.88	8.67	31.18
5D	AG11P	0.18	0.073	0.12	0.028	0.14	0.027	0.050	0.98	9.08	22.57
5D	AG13P	0.21	0.028	0.17	0.037	0.19	0.042	0.047	0.88	7.13	27.22
5E	AG65P	0.48	0.084	0.31	0.071	0.34	0.078	0.093	1.23	8.84	25.24
5E	AG67P	0.49	0.077	0.32	0.049	0.34	0.079	0.098	1.18	8.90	27.08
5E	AG69P	0.45	0.090	0.32	0.055	0.35	0.083	0.185	1.72	11.71	35.00
5F	AH86P	0.05	0.007	0.05	0.011	0.07	0.017	0.030	0.60	2.82	8.47
5F	AH88P	0.07	0.017	0.08	0.018	0.08	0.021	0.030	0.65	3.52	11.22
5F	AH90P	0.07	0.017	0.08	0.023	0.05	0.020	0.028	0.53	3.04	9.97
5G	AI46P	0.09	0.015	0.08	0.009	0.08	0.015	0.029	0.38	2.28	7.07
5G	AI48P	0.04	0.005	0.04	0.002	0.04	0.011	0.022	0.34	1.67	4.57
5G	AI50P	0.10	0.014	0.08	0.005	0.08	0.013	0.028	0.40	2.00	5.57
5H	AJ50P	0.07	0.010	0.05	0.007	0.08	0.013	0.028	0.54	2.70	7.08
5H	AJ52P	0.05	0.014	0.09	0.009	0.03	0.015	0.028	0.85	2.87	8.48
5H	AJ54P	0.08	0.015	0.05	0.007	0.05	0.018	0.038	1.07	4.30	10.89
6A	AG73P	0.38	0.104	0.27	0.049	0.28	0.047	0.092	1.18	11.91	23.98
6A	AG75P	0.42	0.117	0.24	0.050	0.25	0.065	0.072	1.12	9.84	28.73
6A	AG77P	0.48	0.147	0.31	0.087	0.27	0.048	0.080	0.88	11.37	35.84
6B	AG81P	0.90	0.208	0.42	0.087	0.38	0.088	0.084	0.89	8.52	28.77
6B	AG83P	1.07	0.244	0.45	0.101	0.35	0.072	0.090	0.90	10.40	33.45
6B	AG85P	1.17	0.221	0.43	0.080	0.40	0.009	0.108	1.04	13.24	39.44
6C	AG89P	0.21	0.057	0.14	0.031	0.17	0.005	0.046	0.38	4.57	18.28
6C	AG91P	0.43	0.138	0.30	0.083	0.31	0.045	0.074	0.83	8.01	23.22
6C	AG93P	0.48	0.135	0.28	0.087	0.22	0.048	0.078	0.80	7.22	24.32
6D	AG97P	0.04	0.009	0.03	0.012	0.04	0.007	0.008	0.09	1.32	3.82
6D	AG99P	0.06	0.007	0.05	0.007	0.04	0.011	0.022	0.23	1.25	2.24
6D	AH01P	0.33	0.078	0.23	0.045	0.22	0.035	0.052	0.43	4.95	16.79
6F	AH11P	0.21	0.055	0.14	0.028	0.12	0.039	0.083	0.74	4.92	13.87
6F	AH18P	0.24	0.071	0.15	0.028	0.11	0.030	0.083	0.74	5.12	14.15
6F	AH20P	0.22	0.052	0.13	0.025	0.09	0.025	0.048	0.58	4.08	11.99
6G	AH75P	0.48	0.084	0.27	0.047	0.28	0.069	0.134	2.25	21.85	64.56
6G	AH77P	0.49	0.092	0.28	0.052	0.28	0.062	0.127	2.42	21.47	61.80
6G	AH81P	0.50	0.100	0.27	0.054	0.22	0.080	0.111	2.01	18.80	54.62
7A	AH67P	0.52	0.085	0.25	0.043	0.28	0.049	0.120	1.13	11.58	31.18
7A	AH69P	0.38	0.058	0.21	0.037	0.25	0.080	0.092	0.89	8.92	21.02
7A	AH71P	0.50	0.089	0.22	0.045	0.23	0.045	0.098	1.02	8.27	17.22

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                     BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
                          RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

                                     TYPE OF SEDIMENT = BULK

------------------------------------------------- YEAR=2 SITETYPE=OCEANIC -------------------------------------------------

 STATION   SAMPLE      N        F        P        D       PAH    PHYTANE   PRISTANE    LALK     TALK      TOT

   7B      AH50P     0.14    0.025    0.08    0.013    0.06     0.019     0.044      0.55     3.31     8.34
   7B      AH52P     0.10    0.012    0.08    0.016    0.06     0.015     0.037      0.43     2.77     5.76
   7B      AH54P     0.11    0.015    0.08    0.015    0.07     0.018     0.040      0.46     3.13     6.76
   7C      AH41P     0.95    0.068    0.52    0.130    0.02     0.047     0.102      1.16     9.85    28.22
   7C      AH43P     0.57    0.137    0.40    0.094    0.13     0.059     0.130      1.59    14.05    38.15
   7C      AH45P     0.46    0.072    0.28    0.053    0.23     0.049     0.099      1.17    10.00    28.77
   7D      AH33P     0.21    0.056    0.24    0.040    0.13     0.061     0.158      1.77    10.74    37.89
   7D      AH35P     0.33    0.080    0.39    0.082    0.21     0.073     0.135      2.18    15.14    35.52
   7D      AH37P      .        .        .        .        .      0.050     0.116      1.30    11.81    30.03
   7E      AH59P     0.88    0.138    0.44    0.086    0.37     0.080     0.228      1.65    12.41    38.43
   7E      AH61P     0.62    0.084    0.32    0.049    0.28     0.045     0.148      1.30    10.75    31.80
   7E      AH63P     0.72    0.086    0.34    0.055    0.25     0.051     0.181      1.41    10.73    30.84
   7G      AH24P      .        .        .        .        .      0.034     0.144      1.00     4.75    18.48
   7G      AH26P     0.28    0.032    0.31    0.038    0.18     0.049     0.200      1.46     8.42    22.42
   7G      AH28P     0.30    0.025    0.34    0.043    0.18     0.061     0.281      1.88     7.07    31.70

-------------------------------------------------- YEAR=2 SITETYPE=PEAT ---------------------------------------------------

 STATION   SAMPLE      N        F        P        D       PAH    PHYTANE   PRISTANE    LALK     TALK       TOT

   1F      AJ08      0.06    0.015    0.09    0.023    0.41     0.000     0.015     11.53   263.93    531.90
   2G      AI44P     0.04    0.013    0.05    0.011    0.05     0.008     0.021      0.81    38.99     49.90
   2H      AJ05      0.09    0.016    0.06    0.018    0.21     0.043     0.086      2.69    83.86    111.60
   3D      AI31P      .        .      0.01    0.009    0.18     0.040     0.071      3.49   228.99    388.40
   5K      AH94P     0.00      .      0.03      .      0.01     0.022     0.034      1.23    82.84    153.80
   6J      AH07P     0.02      .      0.01      .      0.16     0.000     0.026      5.85   240.75    743.60
   7H      AH32      0.18    0.328    0.12    0.032    0.04     0.023     0.042      1.63    40.99     50.75
   7J      AH79P     0.01      .      0.03      .      0.01     0.075     2.855     13.80   594.80   1701.00

-------------------------------------------------- YEAR=2 SITETYPE=RIVER --------------------------------------------------

 STATION   SAMPLE      N        F        P        D       PAH    PHYTANE   PRISTANE    LALK     TALK      TOT

   5J      AG07P     0.07    0.009    0.08    0.006    0.06     0.020     0.025      1.04     8.61    15.93
   6H      AH09P     0.26    0.019    0.18    0.022    0.22     0.038     0.095      0.99    10.40    25.28
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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = BULK

-- YEAR=3 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
1A	FB25P	0.15	0.042	0.12	0.024	0.09	0.028	0.062	0.58	7.02	15.17
1A	FB27P	0.16	0.017	0.13	0.015	0.12	0.028	0.057	0.50	6.90	15.43
1A	FB29P	0.14	0.032	0.10	0.012	0.08	0.020	0.043	0.45	5.01	11.14
1B	FB33P	0.01	.	0.02	.	0.04	0.008	0.018	0.19	1.05	2.35
1B	FB35P	0.01	.	0.02	.	0.05	0.013	0.028	0.19	1.69	3.80
1B	FB37P	0.22	0.071	0.17	0.030	0.17	0.052	0.107	0.95	6.05	13.57
1C	FB49P	0.03	0.002	0.04	0.002	0.08	0.088	0.141	1.14	8.52	20.30
1C	FB51P	0.23	0.078	0.18	0.044	0.19	0.081	0.139	1.18	5.88	14.38
1C	FB53P	0.33	0.058	0.14	.	0.23	0.081	0.135	0.91	5.70	14.01
1D	FB09P	0.02	0.009	0.02	0.001	0.01	0.005	0.011	0.25	3.11	6.82
1D	FB11P	0.03	0.008	0.02	0.003	0.01	0.007	0.015	0.33	4.04	134.80
1D	FB13P	0.05	.	0.02	0.001	0.00	0.008	0.012	0.30	2.99	82.44
1E	FB17P	0.01	0.002	0.01	0.003	0.00	0.005	0.010	0.21	2.37	6.16
1E	FB19P	0.01	0.002	0.02	0.003	0.01	0.005	0.011	0.24	2.49	4.27
1E	FB21P	0.00	.	0.01	.	0.01	0.006	0.009	0.22	2.28	5.35
2A	FB41P	0.31	0.079	0.34	0.041	0.24	0.062	0.119	1.24	9.12	25.34
2A	FB43P	0.31	0.123	0.42	0.059	0.38	0.068	0.159	1.65	9.47	22.49
2A	FB45P	0.31	0.105	0.34	0.068	0.30	0.085	0.169	1.73	10.20	21.30
2B	FB65P	0.16	0.044	0.12	0.031	0.11	0.023	0.049	0.45	3.98	18.71
2B	FB67P	0.03	0.006	0.03	0.006	0.03	0.000	0.018	0.17	0.49	4.88
2B	FB69P	0.02	0.003	0.02	0.002	0.02	0.004	0.016	0.07	0.57	0.86
2C	FB57P	0.30	0.098	0.21	0.057	0.20	0.073	0.119	0.89	5.43	13.41
2C	FB59P	0.38	0.109	0.28	0.081	0.28	0.084	0.107	0.82	5.62	13.47
2C	FB61P	0.37	0.094	0.23	0.068	0.18	0.088	0.112	0.90	5.49	13.40
2D	FB73P	0.17	0.035	0.13	0.022	0.09	0.028	0.069	0.85	5.75	22.74
2D	FB75P	0.19	0.038	0.15	0.024	0.10	0.030	0.053	0.60	3.89	8.80
2D	FB77P	0.13	0.032	0.13	0.019	0.09	0.020	0.042	0.43	2.82	20.69
2E	FD90P	0.04	0.012	0.05	0.010	0.08	0.015	0.033	0.32	1.89	5.12
2E	FD92P	0.07	0.021	0.07	0.011	0.07	0.018	0.040	0.38	2.38	7.81
2E	FD94P	0.05	0.003	0.08	0.009	0.07	0.031	0.068	0.88	4.22	12.21
2F	FB01P	0.01	.	0.02	.	0.03	0.010	0.020	0.28	0.73	9.45
2F	FB03P	0.01	.	0.02	.	0.01	0.011	0.020	0.24	0.93	10.28
2F	FB05P	0.05	0.011	0.06	0.005	0.02	0.010	0.021	0.20	0.53	1.70
3A	FE13P	0.15	0.031	0.12	0.020	0.07	0.022	0.049	0.49	3.57	8.41
3A	FE15P	0.15	0.023	0.10	0.027	0.08	0.021	0.047	0.46	3.29	10.15
3A	FE17P	0.15	0.036	0.12	0.029	0.11	0.021	0.047	0.47	3.73	11.62
3B	FD98P	0.13	0.027	0.11	0.023	0.11	0.031	0.065	0.67	4.78	14.56
3B	FE07P	0.13	0.040	0.11	0.027	0.10	0.035	0.081	0.82	7.08	16.21
3B	FE09P	0.28	0.082	0.19	0.049	0.13	0.039	0.092	0.93	8.09	19.29
4A	FE29P	0.20	0.071	0.21	0.047	0.11	0.027	0.062	0.62	3.63	6.27
4A	FE31P	0.15	0.053	0.18	0.033	0.08	0.033	0.065	0.67	4.30	12.08
4A	FE33P	0.04	0.017	0.05	0.027	0.03	0.011	0.024	0.31	1.95	5.82
4B	FE21P	0.08	0.018	0.04	0.021	0.04	0.007	0.015	0.20	1.07	2.42
4B	FE23P	0.07	0.017	0.05	0.018	0.04	0.009	0.021	0.27	1.52	3.50
4B	FE25P	0.07	0.012	0.06	0.008	0.06	0.012	0.027	0.32	2.22	9.74
4C	FE45P	0.14	0.032	0.09	0.028	0.09	0.018	0.042	0.40	3.07	7.35
4C	FE47P	0.04	0.015	0.04	0.010	0.04	0.010	0.022	0.28	1.68	6.65
4C	FE49P	0.05	0.018	0.05	0.012	0.05	0.012	0.027	0.33	1.88	6.68
5O	FE61P	0.03	0.008	0.03	0.005	0.01	0.005	0.012	0.16	0.67	0.89
5O	FE63P	0.10	0.027	0.08	0.022	0.07	0.012	0.029	0.38	2.34	4.39
5O	FE65P	0.06	0.014	0.05	0.015	0.04	0.008	0.018	0.26	1.64	3.24

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = BULK

-- YEAR=3 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
510	FD66P	0.03	0.009	0.04	0.009	0.05	0.009	0.020	0.21	1.48	6.18
510	FD68P	0.06	0.013	0.08	0.011	0.08	0.015	0.027	0.22	3.22	15.06
510	FD70P	0.05	0.010	0.05	0.011	0.06	0.014	0.029	0.49	2.36	6.87
51	FE53P	0.03	0.018	0.04	0.021	0.03	0.013	0.028	0.55	1.25	3.86
51	FE55P	0.03	0.004	0.02	0.007	0.02	0.000	0.010	0.15	0.45	0.83
51	FE57	0.03	0.006	0.03	0.008	0.02	0.004	0.008	0.10	0.63	1.24
55	FD82P	0.03	.	0.03	0.003	0.06	0.017	0.031	0.33	1.77	5.18
55	FD84P	0.25	0.023	0.15	0.041	0.01	0.012	0.027	0.29	1.93	6.22
55	FD86P	0.10	0.027	0.06	0.026	0.06	0.012	0.028	0.38	1.88	5.55
5A	FD50P	0.20	0.043	0.14	0.040	0.10	0.024	0.062	0.54	4.09	14.08
5A	FD52P	0.20	0.039	0.12	0.035	0.09	0.022	0.048	0.50	3.56	9.73
5A	FD54P	0.13	0.040	0.07	0.020	0.12	0.024	0.053	0.53	4.05	14.02
5B	FC92P	0.37	0.080	0.27	0.072	0.09	0.081	0.188	1.84	8.65	75.52
5B	FC94P	0.47	0.118	0.32	0.096	0.18	0.082	0.119	1.07	5.97	19.77
5B	FC96P	0.17	0.034	0.12	0.036	0.07	0.020	0.049	0.51	2.84	8.18
5D	FE69P	0.23	0.043	0.17	0.049	0.11	0.028	0.069	0.78	6.81	26.25
5D	FE71P	0.27	0.035	0.19	0.056	0.14	0.032	0.061	0.97	6.14	28.53
5D	FE73P	0.30	0.037	0.18	0.084	0.18	0.033	0.079	0.95	10.51	31.88
5E	FC64P	0.18	0.010	0.20	0.020	0.29	0.126	0.306	2.47	12.38	102.10
5E	FC66P	0.32	0.068	0.25	0.071	0.17	0.114	0.238	1.84	11.44	108.40
5E	FC68P	0.33	0.081	0.25	0.084	0.11	0.080	0.198	1.73	9.41	72.25
5F	FD58P	0.20	0.057	0.17	0.042	0.17	0.035	0.077	1.60	11.38	5.55
5F	FD60P	0.25	0.056	0.15	0.042	0.15	0.030	0.070	0.87	9.23	24.06
5F	FD62P	0.20	0.049	0.11	0.041	0.08	0.035	0.080	1.00	11.28	5.57
5G	FD76P	0.05	0.014	0.05	0.009	0.07	0.013	0.029	0.29	1.85	4.94
5G	FD78P	0.06	0.015	0.04	0.005	0.06	0.015	0.032	0.34	2.48	10.30
5G	FD80P	0.08	0.015	0.06	0.014	0.07	0.020	0.048	0.50	1.96	4.24
5H	FE37P	0.02	0.002	0.03	0.002	0.04	0.017	0.037	0.48	6.71	17.22
5H	FE39P	0.07	0.023	0.07	0.018	0.08	0.015	0.032	0.62	3.15	8.07
5H	FE41P	0.07	0.022	0.06	0.014	0.07	0.013	0.030	0.41	2.88	7.81
6A	FC76P	1.02	0.146	0.33	0.122	0.14	0.064	0.125	1.27	10.36	82.91
6A	FC78P	0.50	0.080	0.29	0.080	0.07	0.048	0.120	1.20	8.79	102.60
6A	FC80P	0.24	0.068	0.18	0.045	0.21	0.050	0.156	1.24	9.18	102.30
6B	FC52P	1.80	0.408	0.78	0.161	0.50	0.238	0.418	3.07	24.98	66.98
6B	FC54P	1.78	0.428	0.77	0.162	0.59	0.219	0.438	4.34	25.59	64.77
6B	FC56P	2.85	0.749	1.08	0.287	0.84	0.252	0.502	4.13	44.86	52.68
6C	FC68P	0.55	0.097	0.28	0.078	0.12	0.075	0.159	1.17	7.96	71.34
6C	FC70P	0.24	0.072	0.19	0.040	0.12	0.081	0.137	1.21	7.07	47.85
6C	FC72P	0.16	0.009	0.15	0.022	0.47	0.078	0.164	1.56	8.92	106.00
6D	FC80P	0.27	0.070	0.15	0.048	0.09	0.025	0.063	0.65	3.55	12.13
6D	FC82P	0.44	0.094	0.22	0.051	0.21	0.067	0.118	1.12	16.50	46.98
6D	FC84P	0.31	0.088	0.18	0.037	0.11	0.033	0.073	0.75	4.37	8.40
6F	FC36P	0.53	0.188	0.30	0.081	0.15	0.090	0.144	1.42	22.22	48.04
6F	FC38P	0.33	0.088	0.20	0.051	0.21	0.042	0.079	0.84	5.15	15.80
6F	FC40P	0.17	0.039	0.09	0.017	0.08	0.028	0.080	0.61	3.20	9.28
6G	FC44P	0.24	0.050	0.18	0.038	0.11	0.044	0.073	1.05	9.25	4.14
6G	FC46P	0.26	0.060	0.18	0.043	0.07	0.072	0.054	0.58	9.18	39.75
6G	FC48P	0.25	0.082	0.18	0.030	0.13	0.087	0.081	0.75	11.88	40.43
7A	FC28P	0.39	0.124	0.20	0.069	0.10	0.057	0.118	1.20	9.89	24.10
7A	FC30P	0.47	0.143	0.24	0.081	0.13	0.049	0.055	0.68	12.92	41.73
7A	FC32P	0.47	0.121	0.28	0.068	0.34	0.078	0.195	1.74	17.98	22.03

BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = BULK

YEAR=3 SITETYPE=OCEANIC

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
7B	FC04P	0.21	0.037	0.11	0.024	0.08	0.028	0.080	0.83	3.83	10.74
7B	FC06P	0.28	0.068	0.16	0.030	0.11	0.037	0.071	0.84	5.13	11.51
7B	FC08P	0.31	0.082	0.18	0.035	0.20	0.083	0.088	0.85	14.85	35.22
7C	FB85P	0.58	0.137	0.38	0.108	0.38	0.072	0.182	1.87	10.82	30.89
7C	FB87P	0.89	0.185	0.85	0.103	0.22	0.078	0.183	1.87	12.45	40.62
7C	FB89P	0.57	0.133	0.38	0.101	0.35	0.075	0.168	1.82	12.72	34.85
7D	FB87P	0.08	0.008	0.04	0.013	0.04	0.010	0.022	0.22	1.40	55.34
7D	FB89P	0.20	0.037	0.15	0.045	0.15	0.027	0.088	0.80	5.22	13.63
7D	FB91P	0.07	0.011	0.05	0.011	0.06	0.012	0.028	0.27	2.09	7.01
7E	FC12P	0.50	0.075	0.28	0.069	0.19	0.052	0.181	1.21	8.03	17.25
7E	FC14P	0.92	0.128	0.40	0.082	0.35	0.078	0.107	1.52	10.88	28.43
7E	FC16P	1.18	0.148	0.80	0.209	0.32	0.085	0.231	1.88	13.55	34.73
7G	FC20P	0.67	0.081	0.28	0.057	0.24	0.082	0.208	1.39	8.51	21.28
7G	FC22P	0.52	0.058	0.22	0.050	0.15	0.035	0.132	0.74	4.84	10.98
7G	FC24P	0.78	0.074	0.40	0.048	0.23	0.082	0.249	1.25	15.24	43.18

YEAR=3 SITETYPE=RIVER

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
2J1	FE04	0.09	0.024	0.08	0.010	0.03	0.018	0.034	0.44	1.28	2.51
2J2	FE05	0.05	0.013	0.08	0.010	0.02	0.012	0.027	0.35	0.98	2.55
SL1	FB81	0.13	0.018	0.10	0.045	0.07	0.045	0.068	1.84	20.14	52.69
SL2	FB82	0.21	0.043	0.18	0.078	0.13	0.032	0.082	1.38	12.21	28.13
SL3	FB83	0.15	0.015	0.12	0.040	0.07	0.032	0.043	1.03	8.84	17.78
SM1	FB84	0.01	0.001	0.01	0.004	0.02	0.006	0.008	0.84	4.41	10.21
SM2	FB85	0.01	0.001	0.01	0.003	0.04	0.008	0.014	1.10	8.37	14.58
SM3	FB86	0.00	.	0.00	.	0.01	0.002	0.008	0.48	1.42	2.98
BK1	FE01	0.24	0.043	0.21	0.048	0.23	0.050	0.109	0.88	9.13	19.98
BK2	FE02	0.30	0.034	0.18	0.045	0.18	0.040	0.108	0.88	10.53	21.48
BK3	FE03	0.18	0.025	0.11	0.028	0.15	0.035	0.083	0.84	5.28	11.32

BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
2E	100	178	0.08	33	14.0	4.2	44	31	5.4	4.0	2.00	9.3
2E	100	198	0.10	33	13.0	5.0	53	32	6.0	3.7	2.70	9.3
2E	100	206	0.10	39	23.0	5.0	54	38	5.3	3.8	2.80	5.8
2E	100	191	0.14	40	14.0	4.8	51	32	4.8	3.7	2.40	7.2
2E	100	188	0.14	39	13.0	4.8	48	32	4.8	3.9	2.30	8.7
2E	100	198	0.11	39	16.0	5.0	53	33	5.1	3.7	2.40	8.7
2F	100	263	0.22	46	15.0	6.7	71	52	5.7	3.7	3.80	12.0
2F	100	280	0.22	49	17.0	6.2	72	53	5.7	3.9	6.20	14.5
2F	100	248	0.23	44	18.0	6.7	71	50	5.6	3.5	5.00	10.7
2F	100	267	0.23	47	18.0	6.7	74	33	5.7	3.6	5.80	12.7
2F	100	263	0.18	46	18.0	6.7	72	53	5.7	3.7	6.50	21.8
2F	100	268	0.20	48	13.7	7.1	79	60	5.6	3.4	6.30	13.4
3A	100	308	0.14	51	24.0	7.8	81	53	6.0	3.8	8.80	42.1
3A	100	358	0.13	56	24.0	5.9	91	60	6.4	3.9	8.80	42.1
3A	100	358	0.20	56	23.0	5.9	89	60	6.4	4.0	8.10	40.1
3A	100	346	0.16	53	21.0	5.8	90	58	6.5	3.8	7.80	40.1
3A	100	363	0.18	56	23.0	6.6	90	58	6.5	4.0	8.20	43.6
3A	100	348	0.16	43	23.0	5.3	89	58	8.1	3.9	9.00	43.6
3B	100	358	0.16	56	24.0	6.3	92	58	6.4	3.9	8.00	62.7
3B	100	375	0.13	58	34.0	4.8	94	60	6.5	4.0	8.80	65.7
3B	100	389	0.16	60	30.0	6.8	100	73	6.5	3.9	9.90	65.7
3B	100	385	0.14	59	24.0	6.9	96	65	6.5	4.0	9.10	82.3
3B	100	383	0.13	60	30.0	6.3	99	65	6.4	3.9	8.90	82.3
3B	100	405	0.18	59	24.0	6.9	100	65	6.9	4.0	9.60	70.3
4A	100	360	0.18	51	23.0	6.9	92	63	7.1	3.9	6.70	28.4
4A	100	370	0.18	55	28.0	7.8	99	65	6.7	3.7	8.80	28.4
4A	100	361	0.18	51	30.0	6.9	94	68	7.1	3.8	6.90	29.2
4A	100	364	0.11	51	22.0	7.9	87	61	7.1	4.2	5.70	18.8
4A	100	365	0.11	50	23.0	8.2	92	64	7.3	4.0	7.40	66.8
4A	100	380	0.14	53	24.0	6.9	97	65	7.2	3.9	7.90	28.2
4B	100	213	0.23	39	22.0	5.9	58	43	5.5	3.7	4.20	10.1
4B	100	194	0.18	32	18.0	5.9	48	31	6.1	4.0	2.40	5.2
4B	100	193	0.14	34	24.0	6.8	49	37	5.7	3.9	3.00	5.2
4B	100	198	0.20	29	17.0	6.8	47	37	6.8	4.2	3.80	11.8
4B	100	189	0.11	31	18.0	6.3	47	38	6.1	4.0	2.70	3.5
4B	100	178	0.20	28	14.0	4.3	39	30	6.4	4.6	1.90	3.5
4C	100	288	0.09	45	19.0	5.1	70	44	6.4	4.1	8.00	27.7
4C	100	323	0.09	44	28.0	4.8	74	45	7.3	4.4	1.80	9.9
4C	100	233	0.06	37	15.0	4.8	49	30	6.3	4.8	2.20	9.9
4C	100	202	0.04	31	12.0	2.8	39	25	6.5	5.2	3.20	12.4
4C	100	251	0.04	46	24.0	3.0	62	29	5.5	4.0	1.80	18.2
4C	100	228	0.06	34	14.0	4.6	47	29	6.7	4.9	3.30	18.2
S10	100	284	0.28	39	21.1	5.4	68	48	7.3	4.2	6.00	38.7
S10	100	288	0.28	38	17.8	5.2	64	50	7.6	4.5	22.00	28.7
S10	100	294	0.28	39	18.6	6.1	67	48	7.5	4.4	26.90	28.7
S10	100	288	0.28	39	17.6	6.1	68	48	7.4	4.2	9.00	55.2
S10	100	275	0.20	35	13.8	4.8	60	47	7.9	4.6	8.60	22.0
S10	100	266	0.22	36	16.6	5.4	62	50	7.3	4.3	5.80	38.7
S1	100	229	0.20	28	10.9	4.8	48	37	8.2	4.8	4.70	13.8
S1	100	.	.	.	.	.	.	.	.	.	.	8.7
S1	100	261	0.18	27	11.3	5.1	49	35	9.7	5.3	5.00	8.7

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

YEAR=1 SITETYPE=OCEANIC

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
51	100	221	0.14	25	9.9	4.5	44	35	8.8	5.0	5.00	11.2
51	100	232	0.16	27	12.9	5.1	48	36	8.6	4.8	5.60	11.2
51	100	252	0.10	23	8.5	5.4	42	31	11.0	6.0	2.20	9.2
51	100	223	0.14	12	4.9	4.8	39	36	18.6	5.7	3.50	9.2
52	100	176	0.10	22	9.3	5.8	43	98	8.0	4.1	1.90	4.8
52	100	176	0.14	22	9.3	5.4	43	101	8.0	4.1	2.20	3.4
52	100	179	0.14	22	10.6	5.4	44	99	8.1	4.1	3.00	3.4
52	100	194	0.14	22	9.9	4.1	45	38	8.8	4.3	6.50	4.1
52	100	194	0.12	22	9.9	5.4	43	38	8.8	4.5	2.00	4.1
52	100	198	0.06	25	10.4	5.4	46	100	7.9	4.3	3.10	2.0
55	100	286	0.20	39	15.1	6.4	68	49	7.3	4.2	6.40	36.9
55	100	285	0.18	38	15.3	6.1	67	49	7.5	4.3	6.70	36.7
55	100	291	0.28	37	14.2	6.1	64	47	7.9	4.5	9.00	36.7
55	100	311	0.24	44	17.9	6.1	74	54	7.1	4.2	18.40	32.0
55	100	303	0.22	42	16.1	5.8	71	53	7.2	4.3	11.00	38.0
55	100	289	0.22	38	15.8	6.7	68	49	7.6	4.3	6.90	38.0
5A	100	595	0.18	50	20.6	10.5	89	68	11.9	6.7	10.20	82.3
5A	100	620	0.22	56	20.1	9.6	97	67	11.1	6.4	10.30	81.6
5A	100	540	0.22	55	20.5	9.3	97	69	9.8	5.6	9.70	81.6
5A	100	474	0.20	51	19.9	8.9	90	57	9.3	5.3	10.20	86.2
5A	100	522	0.28	51	19.7	9.0	90	63	10.2	5.8	10.20	86.2
5A	100	498	0.24	59	22.5	8.6	100	70	8.4	5.0	9.70	80.4
5B	100	194	0.04	16	6.2	4.5	32	16	12.1	6.1	1.80	3.3
5B	100	183	0.04	16	4.4	4.1	31	18	11.4	5.9	2.20	2.4
5B	100	192	0.04	17	4.8	4.5	33	24	11.3	5.8	2.70	2.5
5B	100	203	0.04	20	4.6	3.5	36	18	10.1	5.6	2.00	2.6
5B	100	191	0.04	17	5.4	2.2	33	19	11.2	5.8	1.90	4.6
5B	100	192	0.04	17	4.2	4.5	32	17	11.3	6.0	1.80	4.6
5D	100	381	0.22	56	25.1	10.2	93	77	6.8	4.1	29.80	70.7
5D	100	377	0.22	56	25.1	9.0	93	79	6.7	4.1	28.40	70.7
5D	100	379	0.20	56	25.3	9.0	93	77	6.8	4.1	30.20	71.0
5D	100	376	0.24	53	25.3	10.2	91	76	7.1	4.1	31.90	71.0
5D	100	368	0.22	57	26.1	10.2	93	77	6.5	4.0	29.20	76.0
5D	100	355	0.22	52	22.6	9.0	88	73	6.8	4.0	25.80	73.5
5E	100	257	0.06	17	7.6	4.1	33	18	15.1	7.8	2.10	4.3
5E	100	.	.	.	.	.	.	.	.	.	.	4.3
5E	100	392	0.06	38	12.6	4.8	76	46	10.3	5.2	100	23.3
5E	100	368	0.04	34	11.3	4.8	65	37	10.8	5.7	3.00	21.2
5E	100	231	0.10	20	7.1	4.8	39	22	11.5	5.9	2.50	5.6
5E	100	255	0.04	19	7.1	4.1	36	20	13.4	7.1	2.10	5.6
5E	100	578	0.16	87	31.1	16.6	165	108	6.6	3.5	12.00	92.2
5F	100	331	0.22	51	16.7	8.0	80	65	6.5	4.1	14.90	85.8
5F	100	331	0.24	49	17.6	7.0	80	64	6.8	4.1	14.90	85.8
5F	100	309	0.20	52	18.6	7.3	78	58	5.9	4.0	16.40	55.6
5F	100	335	0.16	49	18.6	7.0	80	63	6.8	4.2	18.70	55.6
5F	100	329	0.20	44	17.6	9.3	77	67	7.5	4.3	16.60	62.6
5F	100	348	0.22	49	17.6	8.0	82	66	7.1	4.2	20.40	62.6
5G	100	258	0.10	31	9.5	5.8	55	35	8.3	4.7	4.00	21.7
5G	100	275	0.12	34	10.2	6.4	60	38	8.1	4.6	6.60	20.0
5G	100	298	0.06	34	10.2	5.8	64	39	8.8	4.7	8.90	14.4
5G	100	285	0.10	36	11.5	6.1	65	41	7.9	4.4	7.20	14.4

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
5G	100	346	0.18	41	13.0	7.7	76	49	8.4	4.6	6.80	17.3
5G	100	255	0.06	31	9.5	5.1	51	35	8.2	5.0	4.70	17.3
6A	100	393	0.16	64	28.0	9.6	96	70	6.1	4.1	13.80	67.5
6A	100	383	0.13	58	23.0	9.6	90	70	6.6	4.3	9.90	67.8
6A	100	373	0.13	57	23.0	8.4	88	70	6.5	4.2	11.80	67.8
6A	100	373	0.11	55	22.0	8.7	87	68	6.8	4.3	10.80	60.8
6A	100	393	0.16	60	24.0	8.0	94	70	6.5	4.2	11.50	70.0
6A	100	398	0.07	64	23.0	9.6	94	73	6.2	4.2	11.00	65.5
6B	100	788	0.27	90	35.0	15.8	154	115	8.8	5.1	18.20	84.7
6B	100	768	0.29	94	37.0	16.7	157	110	8.2	4.9	18.30	84.7
6B	100	738	0.23	87	38.0	15.8	134	99	8.5	5.5	16.60	88.3
6B	100	666	0.32	98	39.0	18.3	161	110	6.8	4.1	18.30	92.4
6B	100	783	0.32	89	36.0	16.7	157	115	8.8	4.9	18.60	92.4
6B	100	743	0.29	81	38.0	17.0	155	113	9.2	4.8	18.10	79.1
6C	100	348	0.06	61	20.0	8.0	86	75	5.7	4.0	7.10	21.6
6C	100	273	0.07	46	16.0	6.1	68	44	5.9	4.0	4.70	16.8
6C	100	603	0.04	97	27.0	7.1	138	95	6.2	4.4	5.20	16.8
6C	100	483	0.06	71	24.0	12.2	131	82	6.8	3.7	8.60	58.4
6C	100	338	0.07	61	20.0	9.3	84	58	5.5	4.0	5.80	32.0
6C	100	343	0.07	54	17.0	7.7	84	55	6.4	4.1	6.00	27.8
6D	100	258	0.05	35	7.0	6.4	58	42	7.4	4.4	2.80	12.0
6D	100	316	0.05	39	11.0	7.1	71	49	8.1	4.5	4.90	12.0
6D	100	270	0.05	36	8.0	6.8	64	46	7.5	4.2	3.60	15.9
6D	100	300	0.07	44	9.6	8.0	75	45	6.8	4.0	5.20	15.9
6D	100	264	0.05	35	8.0	6.4	58	42	7.5	4.6	2.90	4.8
6D	100	288	0.11	41	11.0	7.4	72	49	7.0	4.0	3.40	4.8
6F	100	429	0.09	60	20.0	12.2	106	71	7.1	4.0	12.20	44.7
6F	100	394	0.14	51	17.0	9.3	89	63	7.7	4.4	9.20	44.7
6F	100	500	0.18	71	25.0	15.4	129	63	7.0	3.9	12.40	85.6
6F	100	519	0.14	80	28.0	16.7	139	90	6.5	3.7	13.00	81.7
6F	100	135	0.07	55	13.0	6.1	71	46	2.5	1.9	4.10	28.7
6F	100	468	0.14	64	24.0	15.1	122	83	7.3	3.8	12.10	83.4
7A	100	708	0.09	63	13.0	9.0	87	70	11.2	8.1	7.80	70.2
7A	100	722	0.14	65	13.0	8.8	89	73	11.1	8.1	12.20	71.4
7A	100	693	0.09	57	11.0	8.4	83	77	12.2	8.3	8.30	66.1
7A	100	686	0.11	67	16.0	9.0	90	83	10.2	7.6	7.90	66.1
7A	100	731	0.13	59	17.0	8.4	88	78	12.4	8.3	18.40	60.0
7A	100	650	0.05	67	13.0	5.3	85	70	9.7	7.6	13.60	59.3
7B	100	478	0.07	47	10.0	7.1	70	52	10.1	6.8	5.60	17.7
7B	100	474	0.07	50	10.0	7.4	69	52	9.5	6.9	4.50	13.9
7B	100	460	0.05	53	8.0	6.1	67	51	8.7	6.9	6.90	9.0
7B	100	446	0.05	48	10.0	6.4	71	53	9.3	6.3	5.40	9.4
7B	100	439	0.05	48	9.0	6.5	65	53	9.1	6.8	5.30	10.3
7B	100	443	0.05	47	11.0	6.4	65	45	9.4	6.8	6.00	19.6
7C	100	577	0.11	81	28.0	15.1	150	99	7.1	3.8	13.10	83.5
7C	100	569	0.13	77	27.0	15.1	144	96	7.4	4.0	14.10	86.6
7C	100	574	0.14	78	27.0	14.5	149	97	7.4	3.9	14.00	86.6
7C	100	558	0.13	76	26.0	12.9	140	97	7.3	4.0	12.80	82.6
7C	100	574	0.11	76	26.0	15.4	144	97	7.6	4.0	13.50	82.6
7C	100	554	0.16	77	28.0	15.1	144	96	7.2	3.8	12.70	85.6
7E	100	596	0.14	59	17.0	9.0	90	70	10.1	6.6	17.80	63.3

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

YEAR=1 SITETYPE=OCEANIC

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
7E	100	624	0.18	61	17.0	8.4	93	72	10.2	6.7	15.10	71.6
7E	100	607	0.18	71	19.0	8.0	100	75	8.5	6.1	18.80	71.6
7E	100	596	0.11	60	15.0	8.4	90	69	9.9	6.6	17.70	69.7
7E	100	617	0.16	65	17.0	7.7	93	70	9.5	6.6	20.30	68.5
7E	100	591	0.13	58	16.0	8.4	89	70	10.2	6.6	15.90	68.5
7G	100	610	0.05	36	8.0	10.9	62	51	16.9	9.8	42.00	8.9
7G	100	558	0.05	36	7.0	10.3	62	54	15.5	9.0	19.40	11.5
7G	100	591	0.05	36	7.0	11.9	61	51	16.4	9.7	20.20	10.2
7G	100	596	0.05	48	16.0	10.6	75	55	12.4	7.9	20.90	10.2
7G	100	613	0.08	42	8.0	11.3	65	52	14.6	9.4	18.70	9.4
7G	100	675	0.08	52	23.0	11.6	86	55	13.0	7.8	38.80	10.2

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

--- YEAR=2 SITETYPE=OCEANIC ---

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
1A	AI86P	.	.	.	.	.	.	.	.	.	11.50	84.4
1A	AI88P	.	.	.	.	.	.	.	.	.	9.80	80.0
1A	AI90P	.	.	.	.	.	.	.	.	.	13.80	81.6
1B	AI85P	.	.	.	.	.	.	.	.	.	8.20	19.9
1B	AI87P	.	.	.	.	.	.	.	.	.	5.50	9.2
1B	AI89P	.	.	.	.	.	.	.	.	.	6.00	15.7
1C	AI62P	.	.	.	.	.	.	.	.	.	10.40	72.5
1C	AI64P	.	.	.	.	.	.	.	.	.	8.90	70.7
1C	AI66P	.	.	.	.	.	.	.	.	.	9.50	66.6
1D	AI70P	.	.	.	.	.	.	.	.	.	3.90	11.0
1D	AI72P	.	.	.	.	.	.	.	.	.	9.50	21.5
1D	AI74P	.	.	.	.	.	.	.	.	.	7.80	16.2
1E	AI78P	.	.	.	.	.	.	.	.	.	11.70	83.3
1E	AI80P	.	.	.	.	.	.	.	.	.	10.20	95.2
1E	AI82P	.	.	.	.	.	.	.	.	.	13.10	89.9
2A	AJ08P	.	.	.	.	.	.	.	.	.	22.70	93.1
2A	AJ10P	.	.	.	.	.	.	.	.	.	17.20	90.6
2A	AJ12P	.	.	.	.	.	.	.	.	.	10.90	91.6
2B	AJ16P	.	.	.	.	.	.	.	.	.	7.00	4.0
2B	AJ18P	.	.	.	.	.	.	.	.	.	13.30	63.6
2B	AJ20P	.	.	.	.	.	.	.	.	.	10.40	5.2
2C	AI54P	.	.	.	.	.	.	.	.	.	12.20	70.3
2C	AI56P	.	.	.	.	.	.	.	.	.	9.10	70.5
2C	AI58P	.	.	.	.	.	.	.	.	.	10.00	72.5
2D	AJ26P	.	.	.	.	.	.	.	.	.	18.80	82.7
2D	AJ28P	.	.	.	.	.	.	.	.	.	8.20	15.4
2D	AJ30P	.	.	.	.	.	.	.	.	.	6.40	2.8
2E	AJ34P	126	0.29	77	28.2	16.4	133	113	1.6	0.9	12.00	80.5
2E	AJ36P	141	0.28	82	30.5	18.9	138	121	1.7	1.0	11.70	90.1
2E	AJ38P	134	0.34	82	31.6	22.6	134	114	1.6	1.0	8.20	92.1
2F	AI34P	94	0.22	38	9.0	8.5	61	57	2.5	1.5	4.80	13.8
2F	AI36P	99	0.21	37	10.9	9.7	62	56	2.7	1.6	5.20	15.4
2F	AI38P	172	0.22	37	10.6	8.1	64	57	4.6	2.7	4.10	10.7
3A	AI22P	233	0.17	49	15.0	10.9	75	62	4.8	3.1	10.90	46.6
3A	AI24P	290	0.15	46	18.3	10.6	83	66	6.3	3.5	11.10	48.1
3A	AI26P	197	0.17	45	15.4	9.5	76	64	4.4	2.6	10.40	45.5
3B	AI14P	289	0.17	58	18.1	10.3	99	79	5.0	2.9	11.00	75.9
3B	AI16P	318	0.18	61	19.4	10.5	101	71	5.2	3.1	11.50	70.8
3B	AI18P	340	0.19	53	21.8	10.6	102	78	6.4	3.3	11.20	76.1
4A	AI06P	331	0.06	31	12.6	8.2	57	49	10.7	5.8	18.20	22.5
4A	AI08P	61	0.09	33	12.8	8.0	59	52	1.8	1.0	12.30	43.5
4A	AI10P	382	0.14	52	18.9	12.0	81	65	7.3	4.7	10.60	35.6
4B	AH97P	381	0.16	32	8.8	4.9	48	46	11.9	7.9	6.00	8.0
4B	AH99P	144	0.14	26	8.0	7.2	42	40	5.5	3.4	4.00	4.6
4B	AI01P	99	0.15	29	9.2	5.3	43	42	3.4	2.3	4.00	5.8
4C	AJ42P	311	0.08	40	11.5	10.5	70	51	7.8	4.4	10.80	9.4
4C	AJ44P	277	0.07	29	11.2	8.8	59	39	9.6	4.7	11.40	6.4
4C	AJ46P	284	0.09	38	10.2	10.6	59	44	7.5	4.8	9.80	3.1
50	AG41P	.	.	.	.	.	.	.	.	.	3.40	4.0
50	AG43P	.	.	.	.	.	.	.	.	.	3.60	13.0
50	AG45P	.	.	.	.	.	.	.	.	.	4.80	2.0

BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
510	AG17P	128	0.23	39	11.8	8.8	64	58	3.3	2.0	8.70	21.7
510	AG19P	41	0.24	38	11.7	5.7	61	60	1.1	0.7	6.80	18.8
510	AG21P	54	0.23	42	11.3	5.4	61	57	1.3	0.9	5.80	22.9
51	AG33P	188	0.08	19	6.0	7.8	36	38	9.9	5.2	2.40	0.9
51	AG35P	175	0.08	19	6.0	7.8	36	33	9.2	4.9	2.00	1.2
51	AG37P	194	0.11	25	7.0	8.7	45	48	7.8	4.3	3.40	0.9
55	AG25P	255	0.10	37	12.3	7.3	62	71	6.9	4.1	6.40	11.5
55	AG27P	186	0.21	41	13.6	7.7	66	59	4.5	2.8	5.70	30.7
55	AG29P	239	0.09	26	9.3	6.0	48	35	9.2	5.0	2.70	22.4
5A	AG49P	274	0.21	51	17.0	8.2	74	58	5.4	3.7	11.40	43.5
5A	AG51P	289	0.19	45	14.5	7.9	65	57	6.4	4.4	12.70	35.4
5A	AG53P	378	0.24	49	20.4	9.0	79	65	7.7	4.8	16.70	49.9
5B	AG57P	567	0.12	87	30.7	18.0	150	118	6.5	3.8	10.40	55.8
5B	AG59P	539	0.15	87	31.6	17.5	150	117	6.2	3.6	9.80	81.4
5B	AG61P	498	0.15	87	31.5	16.4	150	114	5.7	3.3	10.00	93.7
5D	AG09P	72	0.29	50	19.6	7.3	78	73	1.4	0.9	16.20	85.9
5D	AG11P	37	0.28	49	16.8	6.6	82	83	0.8	0.5	12.40	55.2
5D	AG13P	32	0.29	49	17.5	7.6	80	77	0.7	0.4	12.20	83.9
5E	AG65P	381	0.20	85	25.6	18.1	144	118	4.5	2.6	9.40	44.6
5E	AG67P	591	0.19	84	32.4	18.3	151	102	7.0	3.9	9.40	23.3
5E	AG69P	464	0.20	78	27.3	17.0	144	107	5.9	3.2	10.40	52.8
5F	AH86P	275	0.10	31	10.1	6.6	51	40	8.9	5.4	7.80	44.3
5F	AH88P	292	0.18	40	11.2	6.9	58	58	7.3	5.0	9.00	42.9
5F	AH90P	272	0.12	37	8.7	6.6	55	52	7.4	4.9	8.10	39.3
5G	AI46P	278	0.09	36	11.3	7.5	63	48	7.7	4.4	7.50	8.2
5G	AI48P	232	0.10	35	10.2	5.8	54	44	6.6	4.3	5.90	11.7
5G	AI50P	268	0.10	38	12.0	8.9	68	50	7.1	3.9	8.40	13.6
5H	AJ50P	.	.	.	.	.	.	.	.	.	6.90	14.6
5H	AJ52P	.	.	.	.	.	.	.	.	.	30.20	17.9
5H	AJ54P	.	.	.	.	.	.	.	.	.	11.60	14.6
6A	AG73P	398	0.15	53	20.1	13.7	90	80	7.5	4.4	12.00	88.8
6A	AG75P	385	0.20	56	21.9	13.6	98	87	6.9	3.9	12.30	83.3
6A	AG77P	346	0.22	70	24.8	17.3	112	99	4.9	3.1	15.90	75.0
6B	AG81P	534	0.20	62	24.5	12.3	110	79	8.6	4.9	11.80	78.7
6B	AG83P	416	0.18	71	21.5	13.1	108	92	5.9	3.9	12.50	90.7
6B	AG85P	556	0.21	70	23.9	11.9	106	90	7.9	5.2	23.30	81.6
6C	AG89P	378	0.09	54	17.4	11.1	96	72	7.0	3.9	6.80	26.6
6C	AG91P	428	0.18	74	24.2	14.3	128	98	5.8	3.3	9.80	82.3
6C	AG93P	471	0.14	73	24.6	13.8	128	94	6.5	3.7	8.70	59.3
6D	AG97P	247	0.05	32	7.6	7.7	57	48	7.7	4.3	3.30	4.4
6D	AG99P	239	0.06	23	7.1	7.9	57	45	10.4	4.2	3.50	2.0
6D	AH01P	379	0.10	54	17.4	12.5	101	74	7.0	3.8	8.30	46.4
6F	AH11P	258	0.12	44	13.1	9.7	81	60	5.9	3.2	6.20	43.7
6F	AH18P	329	0.12	50	13.7	9.7	80	63	6.6	4.1	11.20	34.5
6F	AH20P	286	0.11	48	12.6	9.1	75	57	6.0	3.8	5.40	30.7
6G	AH75P	.	.	.	.	.	.	.	.	.	17.60	80.6
6G	AH77P	.	.	.	.	.	.	.	.	.	16.70	79.6
6G	AH81P	.	.	.	.	.	.	.	.	.	16.80	77.0
7A	AH67P	734	0.12	75	17.6	13.0	92	88	9.8	8.0	11.40	72.4
7A	AH69P	680	0.09	71	12.2	12.4	87	84	9.6	7.8	11.50	72.1
7A	AH71P	717	0.12	68	14.3	15.9	86	88	10.5	8.3	8.60	57.8

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
7B	AH50P	510	0.06	50	8.1	9.6	60	52	10.2	8.5	5.40	8.9
7B	AH52P	459	0.04	56	6.3	10.5	56	48	8.2	8.2	4.60	10.2
7B	AH54P	.	.	.	.	.	.	.	.	.	.	5.8
7C	AH41P	475	0.17	73	23.4	15.7	118	94	6.5	4.0	11.50	83.1
7C	AH43P	534	0.19	94	34.5	22.8	160	123	5.7	3.3	15.90	97.1
7C	AH45P	493	0.13	88	30.2	23.0	147	107	5.6	3.4	12.30	88.0
7D	AH33P	.	.	.	.	.	.	.	.	.	9.60	21.6
7D	AH35P	.	.	.	.	.	.	.	.	.	6.10	63.6
7D	AH37P	.	.	.	.	.	.	.	.	.	12.00	48.3
7E	AH59P	488	0.10	56	18.0	12.6	87	75	8.7	5.6	20.90	74.5
7E	AH61P	602	0.11	66	19.6	15.1	95	75	9.1	6.3	17.60	53.1
7E	AH63P	598	0.11	64	18.6	13.9	93	78	9.3	6.4	36.70	63.7
7G	AH24P	666	0.16	47	11.8	13.9	69	67	14.2	9.7	16.00	38.6
7G	AH26P	619	0.06	47	11.5	14.3	68	61	13.2	9.1	5.60	32.1
7G	AH28P	623	0.10	41	12.1	13.5	67	61	15.2	9.3	9.80	13.0

-- YEAR=2 SITETYPE=PEAT --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
1F	AJ08	471	0.28	65	24.2	13.8	104	59	7.2	4.5	95.30	87.1
2G	AI44P	539	0.23	71	23.6	13.0	109	88	7.6	4.9	42.20	59.3
2H	AJ05	391	0.20	52	19.3	10.5	80	67	7.5	4.9	170.4	73.4
3D	AI31P	526	0.24	15	9.4	2.0	26	21	35.1	20.2	228	44.6
5K	AH04P	436	0.24	59	24.5	7.5	85	97	7.4	5.1	93.40	69.2
6J	AH07P	50	0.49	14	11.2	1.6	20	16	3.6	2.5	261.1	69.1
7H	AH32	593	0.20	31	17.8	14.4	62	51	19.1	9.6	22.90	5.0
7J	AH79P	256	0.34	29	53.4	14.1	50	60	8.8	5.1	294.6	60.5

-- YEAR=2 SITETYPE=RIVER --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
5J	AG07P	102	0.29	41	15.0	8.3	59	62	2.5	1.7	12.80	15.5
6H	AH09P	612	0.15	46	40.9	8.7	62	60	13.3	9.9	65.50	15.4

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

------------------------------------ YEAR=3 SITETYPE=OCEANIC ------------------------------------

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
1A	FB25P	.	.	.	.	.	.	.	.	.	9.00	83.8
1A	FB27P	.	.	.	.	.	.	.	.	.	8.70	84.0
1A	FB29P	.	.	.	.	.	.	.	.	.	8.80	84.1
1B	FB33P	.	.	.	.	.	.	.	.	.	23.00	7.4
1B	FB35P	.	.	.	.	.	.	.	.	.	3.10	8.4
1B	FB37P	.	.	.	.	.	.	.	.	.	7.40	28.4
1C	FB49P	.	.	.	.	.	.	.	.	.	7.70	88.8
1C	FB51P	.	.	.	.	.	.	.	.	.	9.00	82.7
1C	FB53P	.	.	.	.	.	.	.	.	.	8.40	79.8
1D	FB09P	.	.	.	.	.	.	.	.	.	4.80	30.3
1D	FB11P	.	.	.	.	.	.	.	.	.	6.50	49.8
1D	FB13P	.	.	.	.	.	.	.	.	.	4.80	29.9
1E	FB17P	.	.	.	.	.	.	.	.	.	3.80	31.4
1E	FB19P	.	.	.	.	.	.	.	.	.	4.80	29.8
1E	FB21P	.	.	.	.	.	.	.	.	.	3.90	20.0
2A	FB41P	.	.	.	.	.	.	.	.	.	11.30	82.9
2A	FB43P	.	.	.	.	.	.	.	.	.	11.40	78.9
2A	FB45P	.	.	.	.	.	.	.	.	.	10.40	80.4
2B	FD05P	.	.	.	.	.	.	.	.	.	5.80	23.2
2B	FD07P	.	.	.	.	.	.	.	.	.	2.00	9.9
2B	FD09P	.	.	.	.	.	.	.	.	.	2.00	4.8
2C	FB57P	.	.	.	.	.	.	.	.	.	7.80	82.7
2C	FB59P	.	.	.	.	.	.	.	.	.	7.00	87.5
2C	FB61P	.	.	.	.	.	.	.	.	.	7.40	81.8
2D	FB73P	.	.	.	.	.	.	.	.	.	8.40	14.5
2D	FB75P	.	.	.	.	.	.	.	.	.	5.40	17.9
2D	FB77P	.	.	.	.	.	.	.	.	.	4.90	30.8
2E	FD00P	.	.	.	.	.	.	.	.	.	3.80	23.9
2E	FD02P	.	.	.	.	.	.	.	.	.	4.80	30.5
2E	FD04P	.	.	.	.	.	.	.	.	.	7.50	47.0
2F	FB01P	.	.	.	.	.	.	.	.	.	3.50	9.9
2F	FB03P	.	.	.	.	.	.	.	.	.	3.30	12.5
2F	FB05P	.	.	.	.	.	.	.	.	.	2.50	8.8
3A	FE13P	.	.	.	.	.	.	.	.	.	5.40	17.8
3A	FE15P	.	.	.	.	.	.	.	.	.	8.20	30.3
3A	FE17P	.	.	.	.	.	.	.	.	.	7.00	24.7
3B	FD08P	.	.	.	.	.	.	.	.	.	9.00	83.4
3B	FE07P	.	.	.	.	.	.	.	.	.	10.30	88.3
3B	FE09P	.	.	.	.	.	.	.	.	.	12.00	78.5
4A	FE29P	.	.	.	.	.	.	.	.	.	8.30	72.3
4A	FE31P	.	.	.	.	.	.	.	.	.	5.70	31.7
4A	FE33P	.	.	.	.	.	.	.	.	.	3.40	9.4
4B	FE21P	.	.	.	.	.	.	.	.	.	2.50	8.1
4B	FE23P	.	.	.	.	.	.	.	.	.	3.20	14.5
4B	FE25P	.	.	.	.	.	.	.	.	.	3.30	19.8
4C	FE45P	.	.	.	.	.	.	.	.	.	8.80	18.4
4C	FE47P	.	.	.	.	.	.	.	.	.	2.90	13.7
4C	FE49P	.	.	.	.	.	.	.	.	.	3.20	13.2
50	FE81P	.	.	.	.	.	.	.	.	.	2.00	3.9
50	FE83P	.	.	.	.	.	.	.	.	.	4.30	22.1
50	FE85P	.	.	.	.	.	.	.	.	.	2.90	9.0

BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=3 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
510	FD66P	.	.	.	.	.	.	.	.	.	3.90	14.5
510	FD68P	.	.	.	.	.	.	.	.	.	5.70	17.5
510	FD70P	.	.	.	.	.	.	.	.	.	6.20	17.0
51	FE53P	.	.	.	.	.	.	.	.	.	1.90	4.3
51	FE55P	.	.	.	.	.	.	.	.	.	1.80	3.6
51	FE57	.	.	.	.	.	.	.	.	.	17.00	4.2
55	FD62P	.	.	.	.	.	.	.	.	.	4.80	14.8
55	FD64P	.	.	.	.	.	.	.	.	.	4.30	9.6
55	FD66P	.	.	.	.	.	.	.	.	.	4.30	13.2
5A	FD50P	.	.	.	.	.	.	.	.	.	7.30	45.7
5A	FD52P	.	.	.	.	.	.	.	.	.	5.70	45.3
5A	FD54P	.	.	.	.	.	.	.	.	.	6.60	56.2
5B	FC92P	.	.	.	.	.	.	.	.	.	6.90	73.3
5B	FC94P	.	.	.	.	.	.	.	.	.	8.60	77.5
5B	FC96P	.	.	.	.	.	.	.	.	.	5.80	14.7
5D	FE69P	.	.	.	.	.	.	.	.	.	8.90	80.3
5D	FE71P	.	.	.	.	.	.	.	.	.	14.30	74.6
5D	FE73P	.	.	.	.	.	.	.	.	.	20.00	84.3
5E	FC84P	.	.	.	.	.	.	.	.	.	9.70	43.7
5E	FC86P	.	.	.	.	.	.	.	.	.	12.20	40.1
5E	FC88P	.	.	.	.	.	.	.	.	.	7.10	29.6
5F	FD58P	.	.	.	.	.	.	.	.	.	12.30	55.6
5F	FD60P	.	.	.	.	.	.	.	.	.	11.30	54.4
5F	FD62P	.	.	.	.	.	.	.	.	.	13.30	52.7
5G	FD76P	.	.	.	.	.	.	.	.	.	4.50	16.7
5G	FD78P	.	.	.	.	.	.	.	.	.	4.70	17.4
5G	FD80P	.	.	.	.	.	.	.	.	.	3.90	26.7
5H	FE37P	.	.	.	.	.	.	.	.	.	10.30	27.6
5H	FE39P	.	.	.	.	.	.	.	.	.	5.20	17.8
5H	FE41P	.	.	.	.	.	.	.	.	.	4.70	18.8
6A	FC76P	.	.	.	.	.	.	.	.	.	10.70	74.3
6A	FC78P	.	.	.	.	.	.	.	.	.	8.90	65.3
6A	FC80P	.	.	.	.	.	.	.	.	.	8.70	75.3
6B	FC52P	.	.	.	.	.	.	.	.	.	16.70	75.3
6B	FC54P	.	.	.	.	.	.	.	.	.	17.10	82.2
6B	FC56P	.	.	.	.	.	.	.	.	.	17.00	82.5
6C	FC68P	.	.	.	.	.	.	.	.	.	8.60	42.3
6C	FC70P	.	.	.	.	.	.	.	.	.	6.80	25.2
6C	FC72P	.	.	.	.	.	.	.	.	.	8.10	33.6
6D	FC80P	.	.	.	.	.	.	.	.	.	5.40	45.7
6D	FC82P	.	.	.	.	.	.	.	.	.	8.00	37.7
6D	FC84P	.	.	.	.	.	.	.	.	.	5.10	25.5
6F	FC36P	.	.	.	.	.	.	.	.	.	13.40	88.8
6F	FC38P	.	.	.	.	.	.	.	.	.	8.50	65.2
6F	FC40P	.	.	.	.	.	.	.	.	.	4.80	20.0
6G	FC44P	.	.	.	.	.	.	.	.	.	10.80	79.5
6G	FC46P	.	.	.	.	.	.	.	.	.	9.20	71.5
6G	FC48P	.	.	.	.	.	.	.	.	.	.	74.1
7A	FC28P	.	.	.	.	.	.	.	.	.	7.30	64.1
7A	FC30P	.	.	.	.	.	.	.	.	.	7.60	47.1
7A	FC32P	.	.	.	.	.	.	.	.	.	14.10	50.6

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                  BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
               RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

                                 TYPE OF SEDIMENT = BULK

---------------------------------------- YEAR=3 SITETYPE=OCEANIC ----------------------------------------

       STATION    SAMPLE    BA    CD    CR    CU    PB    V    ZN    BA/CR    BA/V      TOC    % MUD

         7B       FC04P     .     .     .     .     .     .    .       .        .       5.00    19.1
         7B       FC06P     .     .     .     .     .     .    .       .        .       5.30    20.2
         7B       FC08P     .     .     .     .     .     .    .       .        .       5.50    13.2
         7C       FB85P     .     .     .     .     .     .    .       .        .       5.70    86.0
         7C       FB87P     .     .     .     .     .     .    .       .        .       5.90    84.3
         7C       FB89P     .     .     .     .     .     .    .       .        .      12.20    89.3
         7D       FB87P     .     .     .     .     .     .    .       .        .       2.80     7.1
         7D       FB89P     .     .     .     .     .     .    .       .        .       6.20    43.0
         7D       FB91P     .     .     .     .     .     .    .       .        .       4.40    12.6
         7E       FC12P     .     .     .     .     .     .    .       .        .      10.60    77.8
         7E       FC14P     .     .     .     .     .     .    .       .        .      12.90    73.5
         7E       FC16P     .     .     .     .     .     .    .       .        .      15.70    81.3
         7G       FC20P     .     .     .     .     .     .    .       .        .      10.80    38.0
         7G       FC22P     .     .     .     .     .     .    .       .        .       8.80    54.4
         7G       FC24P     .     .     .     .     .     .    .       .        .      11.30    54.3

---------------------------------------- YEAR=3 SITETYPE=RIVER ----------------------------------------

       STATION    SAMPLE    BA    CD    CR    CU    PB    V    ZN    BA/CR    BA/V      TOC    % MUD

         2J1      FE04      .     .     .     .     .     .    .       .        .      42.00    15.2
         2J2      FE05      .     .     .     .     .     .    .       .        .      40.00    11.9
         5L1      FB81      .     .     .     .     .     .    .       .        .        193    32.9
         5L2      FB82      .     .     .     .     .     .    .       .        .        242    77.0
         5L3      FB83      .     .     .     .     .     .    .       .        .        120    60.1
         5M1      FB84      .     .     .     .     .     .    .       .        .      47.00     8.6
         5M2      FB85      .     .     .     .     .     .    .       .        .      55.00    12.3
         5M3      FB86      .     .     .     .     .     .    .       .        .      28.00     5.3
         6K1      FE01      .     .     .     .     .     .    .       .        .      68.00    29.4
         6K2      FE02      .     .     .     .     .     .    .       .        .        186    47.6
         6K3      FE03      .     .     .     .     .     .    .       .        .      45.00    25.0
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                 BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
                          RAW DATA LISTING FOR RATIO VARIABLES

                                TYPE OF SEDIMENT = BULK

----------------------------------------------- YEAR=1 SITETYPE=OCEANIC -----------------------------------------------

  STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

    2E        100       83      0.437       0.321         2.2       0.6    7.8     0.008       1.5
    2E        100        .        .           .            .         .      .        .          .
    2E        100        .        .           .            .         .      .        .          .
    2E        100        .        .           .            .         .      .        .          .
    2E        100        .        .           .            .         .      .        .          .
    2E        100        .        .           .            .         .      .        .          .
    2F        100       81      0.430       0.289         2.1       0.5   10.6     0.011       1.6
    2F        100       77      0.478       0.308         2.7       0.4   10.3     0.006       0.9
    2F        100       72      0.481       0.263         2.7       0.4   27.0     0.008       1.1
    2F        100        .      0.523       0.324         3.1       0.4     .      0.004       0.8
    2F        100       77      0.483       0.285         2.8       0.5   10.7     0.008       0.9
    2F        100       78      0.438       0.233         2.1       0.5   11.7     0.007       1.0
    3A        100       80      0.448       0.178         2.1       0.8    8.4     0.011       1.1
    3A        100        .        .           .            .         .      .        .          .
    3A        100        .        .           .            .         .      .        .          .
    3A        100        .        .           .            .         .      .        .          .
    3A        100        .        .           .            .         .      .        .          .
    3A        100        .        .           .            .         .      .        .          .
    3B        100       83      0.444       0.185         2.2       1.0    6.3     0.002       1.3
    3B        100       77      0.432       0.188         2.1       0.8    8.6     0.011       1.1
    3B        100       86      0.431       0.170         2.0       1.0    7.3     0.008       1.5
    3B        100       78      0.432       0.182         2.1       0.9    9.5     0.012       1.9
    3B        100       83      0.442       0.192         2.2       1.1   10.2     0.010       2.1
    3B        100       78      0.434       0.188         2.0       0.7    7.5     0.013       1.2
    4A        100       74      0.479       0.183         1.8       1.0    4.7     0.027       1.6
    4A        100       78      0.406       0.170         2.2       0.8    5.0     0.012       1.6
    4A        100       84      0.388       0.194         2.6       1.0    3.9     0.013       2.1
    4A        100       83      0.435       0.193         2.8       1.1    3.7     0.018       2.3
    4A        100       81      0.420       0.189         2.8       0.9    4.4     0.014       1.5
    4A        100       80      0.437       0.186         2.6       0.9    4.8     0.013       1.4
    4B        100       86      0.442       0.205         2.4       1.0    3.4     0.004       0.9
    4B        100        .        .           .            .         .      .        .          .
    4B        100        .        .           .            .         .      .        .          .
    4B        100        .        .           .            .         .      .        .          .
    4B        100        .        .           .            .         .      .        .          .
    4B        100        .        .           .            .         .      .        .          .
    4C        100       80      0.429       0.272         2.3       0.8    4.1     0.008       1.1
    4C        100        .        .           .            .         .      .        .          .
    4C        100        .        .           .            .         .      .        .          .
    4C        100        .        .           .            .         .      .        .          .
    4C        100        .        .           .            .         .      .        .          .
    4C        100        .        .           .            .         .      .        .          .
    510       100        .        .           .            .         .      .        .          .
    510       100       82      0.474       0.198         2.9       0.9    4.7     0.004       0.8
    510       100        .        .           .            .         .      .        .          .
    510       100        .        .           .            .         .      .        .          .
    510       100        .        .           .            .         .      .        .          .
    510       100        .        .           .            .         .      .        .          .
    51        100       73      0.484       0.243         2.2       0.8    5.0     0.009       1.0
    51        100        .        .           .            .         .      .        .          .
    51        100        .        .           .            .         .      .        .          .
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                    BEAUFONT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
                               RAW DATA LISTING FOR RATIO VARIABLES

                                    TYPE OF SEDIMENT = BULK

---------------------------------------- YEAR=1 SITETYPE=OCEANIC ----------------------------------------

 STATION   SAMPLE   FFPI   ISO/ALK   LALK/TALK   PRIS/PHYT   N/P   P/D   PAH/TOC   TOT/TOC

   51        100      .       .          .           .        .     .       .          .
   51        100      .       .          .           .        .     .       .          .
   51        100      .       .          .           .        .     .       .          .
   51        100      .       .          .           .        .     .       .          .
   52        100     75     0.389      0.392        2.4      0.6   3.8    0.006       1.4
   52        100      .       .          .           .        .     .       .          .
   52        100      .       .          .           .        .     .       .          .
   52        100      .       .          .           .        .     .       .          .
   52        100      .       .          .           .        .     .       .          .
   52        100      .       .          .           .        .     .       .          .
   55        100     74     0.522      0.192        2.0      0.8   5.2    0.020       2.1
   55        100      .       .          .           .        .     .       .          .
   55        100      .       .          .           .        .     .       .          .
   55        100      .       .          .           .        .     .       .          .
   55        100      .       .          .           .        .     .       .          .
   55        100      .       .          .           .        .     .       .          .
   5A        100     80     0.517      0.189        2.1      1.1   6.4    0.015       1.0
   5A        100      .       .          .           .        .     .       .          .
   5A        100      .       .          .           .        .     .       .          .
   5A        100      .       .          .           .        .     .       .          .
   5A        100      .       .          .           .        .     .       .          .
   5A        100      .       .          .           .        .     .       .          .
   5B        100     81     0.446      0.381        2.4      0.9   3.8    0.084       1.5
   5B        100      .       .          .           .        .     .       .          .
   5B        100      .       .          .           .        .     .       .          .
   5B        100      .       .          .           .        .     .       .          .
   5B        100      .       .          .           .        .     .       .          .
   5B        100      .       .          .           .        .     .       .          .
   5D        100     83     0.411      0.111        2.1      1.0   6.3    0.008       1.3
   5D        100     82     0.399      0.108        2.1      0.9   5.4    0.007       1.5
   5D        100     88     0.418      0.115        2.1      1.2   5.8    0.006       1.3
   5D        100     79     0.417      0.091        2.1      0.8   5.8    0.007       1.5
   5D        100     73     0.417      0.112        1.9      0.7   6.8    0.011       0.5
   5D        100     68     0.425      0.105        2.1      0.8   5.2    0.015       1.1
   5E        100     83     0.484      0.282        2.3      0.9   4.5    0.040       4.3
   5E        100      .       .          .           .        .     .       .          .
   5E        100      .       .          .           .        .     .       .          .
   5E        100      .       .          .           .        .     .       .          .
   5E        100      .       .          .           .        .     .       .          .
   5E        100      .       .          .           .        .     .       .          .
   5E        100      .       .          .           .        .     .       .          .
   5F        100     67     0.415      0.115        2.2      0.9   6.6    0.018       0.1
   5F        100      .       .          .           .        .     .       .          .
   5F        100      .       .          .           .        .     .       .          .
   5F        100      .       .          .           .        .     .       .          .
   5F        100      .       .          .           .        .     .       .          .
   5F        100      .       .          .           .        .     .       .          .
   5G        100     77     0.485      0.283        2.5      0.9   7.4    0.022       2.7
   5G        100      .       .          .           .        .     .       .          .
   5G        100      .       .          .           .        .     .       .          .
   5G        100      .       .          .           .        .     .       .          .
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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR RATIO VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
5G	100	.	.	.	.	.	.	.	.
5G	100	.	.	.	.	.	.	.	.
6A	100	81	0.494	0.287	2.4	1.1	3.1	0.019	1.8
6A	100	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.
6B	100	84	0.506	0.177	2.1	1.6	6.1	0.069	3.8
6B	100	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.
6C	100	86	0.493	0.347	2.7	1.3	3.0	0.013	1.8
6C	100	.	0.483	0.336	2.5	.	.	.	2.6
6C	100	77	0.488	0.330	2.4	1.1	3.9	0.035	2.5
6C	100	78	0.482	0.293	1.9	0.9	5.5	0.036	3.3
6C	100	76	0.487	0.274	2.4	0.8	4.3	0.032	2.3
6C	100	80	0.452	0.257	2.1	0.9	5.0	0.022	2.0
6D	100	71	0.473	0.654	2.5	1.0	4.4	0.020	2.0
6D	100	75	0.488	0.691	2.5	0.8	4.4	0.012	2.2
6D	100	82	0.456	0.383	2.5	1.2	4.8	0.010	1.5
6D	100	78	0.474	0.225	2.6	1.1	6.4	0.018	2.1
6D	100	78	0.465	0.452	2.5	1.0	5.7	0.018	2.0
6D	100	77	0.474	0.480	2.4	0.8	4.8	0.022	2.0
6F	100	80	0.459	0.192	2.4	1.1	5.0	0.022	2.0
6F	100	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.
7A	100	.	0.470	0.280	2.5	1.4	.	0.032	2.7
7A	100	.	0.538	0.249	2.7	1.5	4.5	0.000	1.7
7A	100	95	0.586	0.230	2.2	1.7	3.9	0.029	1.8
7A	100	80	0.547	0.229	2.6	1.3	5.2	0.049	3.1
7A	100	81	0.561	0.215	2.9	1.3	6.2	0.022	1.7
7A	100	94	0.573	0.224	2.5	1.1	6.3	0.018	1.4
7B	100	78	0.451	0.322	2.7	1.1	4.8	0.022	2.0
7B	100	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.
7C	100	81	0.470	0.225	2.2	1.1	5.7	0.028	1.8
7C	100	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.
7E	100	88	0.617	0.217	3.5	1.8	7.3	0.013	0.1

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                    BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
                              RAW DATA LISTING FOR RATIO VARIABLES

                                   TYPE OF SEDIMENT = BULK

------------------------------------------------- YEAR=1 SITETYPE=OCEANIC -------------------------------------------------

      STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

        7E        100        .        .           .            .         .      .        .          .
        7E        100        .        .           .            .         .      .        .          .
        7E        100        .        .           .            .         .      .        .          .
        7E        100        .        .           .            .         .      .        .          .
        7E        100        .        .           .            .         .      .        .          .
        7G        100       87      0.023       0.283          4.7      1.8   11.0     0.008       0.4
        7G        100        .        .           .            .         .      .        .          .
        7G        100        .        .           .            .         .      .        .          .
        7G        100        .        .           .            .         .      .        .          .
        7G        100        .        .           .            .         .      .        .          .
        7G        100        .        .           .            .         .      .        .          .
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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR RATIO VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
1A	AI86P	80	0.363	0.078	1.9	1.2	5.2	0.008	1.3
1A	AI88P	80	0.397	0.083	1.8	0.9	7.8	0.010	1.3
1A	AI90P	82	0.387	0.058	1.8	1.0	4.8	0.008	1.8
1B	AI95P	88	0.471	0.118	1.7	1.1	4.8	0.005	0.6
1B	AI97P	73	0.431	0.300	1.9	0.7	7.3	0.004	0.9
1B	AI99P	71	0.483	0.120	1.8	1.5	5.3	0.006	0.7
1C	AI62P	67	0.546	0.145	1.5	1.2	4.3	0.024	2.5
1C	AI64P	70	0.531	0.177	1.4	1.3	4.0	0.023	2.9
1C	AI66P	68	0.564	0.144	1.5	1.3	5.6	0.025	2.3
1D	AI70P	.	0.266	0.067	2.6	1.3	6.0	0.004	0.3
1D	AI72P	64	0.318	0.058	2.2	1.2	17.0	0.005	1.3
1D	AI74P	67	0.293	0.061	2.2	1.6	18.0	0.003	0.9
1E	AI78P	73	0.118	0.059	1.9	1.1	17.5	0.003	1.8
1E	AI80P	71	0.132	0.093	1.8	1.1	10.8	0.004	2.4
1E	AI82P	71	0.128	0.078	1.8	1.1	13.0	0.003	1.9
2A	AJ08P	71	0.354	0.085	1.9	0.9	9.7	0.012	1.6
2A	AJ10P	70	0.490	0.133	1.1	0.5	9.3	0.022	1.2
2A	AJ12P	78	0.451	0.193	1.6	0.8	7.8	0.028	1.2
2B	AJ16P	70	0.412	0.139	1.9	1.0	12.7	0.005	0.4
2B	AJ18P	71	0.500	0.081	1.5	1.0	6.2	0.011	1.7
2B	AJ20P	64	0.421	0.135	2.0	1.2	5.0	0.005	0.3
2C	AI54P	72	0.543	0.166	1.6	1.5	4.1	0.018	1.2
2C	AI56P	68	0.568	0.155	1.2	1.2	4.6	0.025	1.7
2C	AI58P	70	0.531	0.157	1.5	1.3	5.0	0.022	1.3
2D	AJ26P	77	0.344	0.089	1.8	0.8	5.0	0.005	0.9
2D	AJ28P	.	0.387	0.188	1.6	7.4	.	0.015	0.5
2D	AJ30P	56	0.419	0.131	1.6	0.4	5.0	0.007	0.4
2E	AJ34P	71	0.339	0.136	1.8	0.7	5.1	0.009	1.5
2E	AJ36P	79	0.490	0.137	1.7	1.9	13.8	0.024	2.9
2E	AJ38P	88	0.435	0.239	1.4	1.4	4.2	0.007	2.1
2F	AI34P	.	0.443	0.381	1.9	0.3	.	0.004	0.3
2F	AI36P	83	0.442	0.378	2.0	1.1	22.3	0.008	0.4
2F	AI38P	84	0.434	0.345	1.9	1.4	48.0	0.008	0.4
3A	AI22P	74	0.443	0.123	1.9	0.8	5.2	0.005	0.5
3A	AI24P	74	0.450	0.137	1.9	1.9	5.2	0.012	0.4
3A	AI26P	76	0.453	0.141	1.9	1.1	22.0	0.009	0.4
3B	AI14P	78	0.411	0.183	1.8	0.8	6.8	0.008	1.9
3B	AI16P	80	0.422	0.149	1.8	0.8	6.8	0.009	1.8
3B	AI18P	78	0.440	0.159	1.5	0.6	8.1	0.007	1.9
4A	AI06P	86	0.378	0.227	1.7	1.4	14.4	0.002	0.4
4A	AI08P	77	0.384	0.201	1.5	1.1	10.9	0.004	0.9
4A	AI10P	75	0.417	0.085	1.6	1.2	9.2	0.007	1.0
4B	AH97P	76	0.428	0.228	1.8	1.2	9.5	0.008	1.0
4B	AH99P	.	0.415	0.287	2.0	0.6	10.7	0.007	0.7
4B	AI01P	70	0.428	0.320	1.7	1.6	5.2	0.009	0.9
4C	AJ42P	73	0.387	0.206	1.8	1.1	8.4	0.010	1.1
4C	AJ44P	74	0.414	0.211	1.9	0.8	16.4	0.005	0.7
4C	AJ46P	73	0.499	0.211	1.7	1.5	7.2	0.007	0.8
50	AG41P	.	0.377	0.209	2.0	1.1	5.5	0.006	0.5
50	AG43P	83	0.424	0.198	1.9	0.9	14.3	0.018	1.4
50	AG45P	88	0.417	0.220	2.0	1.0	3.7	0.008	0.7

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR RATIO VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
510	AG17P	74	0.438	0.178	1.8	1.2	3.7	0.007	0.9
510	AG19P	80	0.437	0.171	1.8	1.6	2.7	0.008	1.1
510	AG21P	77	0.396	0.174	1.8	1.0	5.1	0.010	1.5
51	AG33P	66	0.361	0.225	1.9	1.1	15.5	0.014	0.3
51	AG35P	.	0.304	0.330	2.0	0.4	13.0	0.004	0.4
51	AG37P	67	0.397	0.186	1.9	1.3	5.8	0.009	0.7
55	AG25P	71	0.251	0.228	2.0	1.2	4.9	0.007	0.8
55	AG27P	73	0.417	0.178	1.9	1.3	4.6	0.011	1.3
55	AG29P	.	0.425	0.148	1.8	0.3	9.0	0.003	1.4
5A	AG49P	72	0.555	0.160	1.2	1.6	6.4	0.013	1.5
5A	AG51P	72	0.506	0.179	1.6	2.1	6.3	0.009	1.4
5A	AG55P	74	0.430	0.250	2.2	1.2	7.0	0.008	0.5
5B	AG57P	75	0.603	0.151	1.2	1.4	4.9	0.035	2.7
5B	AG59P	71	0.592	0.169	1.2	1.3	6.2	0.039	2.8
5B	AG61P	73	0.622	0.161	1.1	1.3	5.8	0.037	3.1
5D	AG09P	77	0.491	0.102	1.1	1.3	4.1	0.008	1.0
5D	AG11P	74	0.390	0.108	1.9	1.5	4.2	0.011	1.8
5D	AG13P	69	0.538	0.121	1.1	1.2	4.6	0.016	2.2
5E	AG65P	74	0.486	0.185	1.2	1.6	4.4	0.038	2.7
5E	AG67P	73	0.566	0.171	1.2	1.5	6.6	0.036	2.9
5E	AG69P	73	0.482	0.147	2.0	1.4	5.9	0.034	3.4
5F	AH86P	82	0.432	0.213	1.8	1.0	4.4	0.009	1.1
5F	AH88P	68	0.453	0.185	1.4	1.1	3.9	0.009	1.2
5F	AH90P	74	0.429	0.174	1.3	1.1	2.8	0.010	1.6
5G	AI46P	66	0.427	0.165	2.0	1.4	7.0	0.011	0.8
5G	AI48P	68	0.443	0.203	1.9	1.0	21.0	0.007	0.8
5G	AI50P	77	0.433	0.199	2.0	1.6	13.0	0.008	0.9
5H	AJ50P	69	0.397	0.196	2.0	1.5	6.9	0.009	1.0
5H	AJ52P	85	0.389	0.225	1.9	0.8	10.0	0.001	0.3
5H	AJ54P	73	0.421	0.249	2.0	1.1	7.4	0.004	0.9
6A	AG73P	76	0.475	0.099	2.0	1.4	5.8	0.021	2.0
6A	AG75P	76	0.505	0.114	1.3	1.7	4.9	0.021	2.3
6A	AG77P	79	0.524	0.075	1.7	1.5	4.7	0.017	2.3
6B	AG81P	81	0.610	0.105	1.2	2.2	4.8	0.032	2.3
6B	AG83P	84	0.582	0.088	1.3	2.4	4.5	0.028	2.7
6B	AG85P	83	0.490	0.079	11.4	2.7	5.4	0.017	1.7
6C	AG89P	72	0.506	0.082	10.0	1.5	4.5	0.025	2.4
6C	AG91P	75	0.572	0.079	1.7	1.4	4.7	0.031	2.4
6C	AG93P	81	0.441	0.111	1.6	1.7	4.2	0.028	2.8
6D	AG97P	66	0.561	0.070	1.1	1.3	2.7	0.014	1.1
6D	AG99P	78	0.468	0.185	2.1	1.4	6.7	0.010	0.6
6D	AH01P	75	0.602	0.086	1.5	1.4	5.1	0.035	2.7
6F	AH11P	79	0.496	0.150	1.6	1.5	5.4	0.019	2.2
6F	AH19P	82	0.428	0.144	2.1	1.6	5.5	0.010	1.3
6F	AH20P	82	0.429	0.142	1.9	1.6	5.2	0.017	2.2
6G	AH75P	75	0.421	0.103	1.9	1.7	5.7	0.016	3.7
6G	AH77P	78	0.389	0.113	2.1	1.7	5.5	0.014	3.3
6G	AH81P	80	0.368	0.107	1.9	1.8	5.0	0.012	2.9
7A	AH67P	76	0.496	0.098	2.4	2.1	5.8	0.025	2.7
7A	AH69P	74	0.601	0.128	1.5	1.8	5.7	0.021	1.8
7A	AH71P	79	0.510	0.124	2.1	2.2	5.0	0.027	2.0

BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR RATIO VARIABLES

TYPE OF SEDIMENT = BULK

YEAR=2 SITETYPE=OCEANIC

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
7B	AH50P	82	0.422	0.168	2.3	1.8	6.2	0.011	1.5
7B	AH52P	74	0.434	0.154	2.4	1.6	3.7	0.014	1.3
7B	AH54P	75	0.444	0.147	2.2	1.8	4.3	.	.
7C	AH41P	89	0.454	0.118	2.2	1.8	4.0	0.002	2.5
7C	AH43P	80	0.427	0.113	2.2	1.4	4.3	0.008	2.4
7C	AH45P	79	0.432	0.117	2.0	1.8	5.0	0.019	2.3
7D	AH33P	81	0.482	0.105	3.1	0.9	6.0	0.013	3.9
7D	AH35P	81	0.453	0.143	1.8	0.9	4.8	0.026	4.4
7D	AH37P	.	0.454	0.109	2.3	.	.	.	2.5
7E	AH59P	81	0.654	0.133	3.8	2.0	5.1	0.018	1.8
7E	AH61P	79	0.583	0.121	3.3	1.9	6.8	0.016	1.8
7E	AH63P	83	0.615	0.132	3.6	2.1	6.2	0.007	0.8
7G	AH24P	.	0.696	0.210	4.2	.	.	.	1.2
7G	AH26P	80	0.742	0.227	4.3	0.9	8.8	0.028	4.0
7G	AH28P	79	0.798	0.238	4.8	0.9	7.8	0.019	3.2

YEAR=2 SITETYPE=PEAT

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
1F	AJ08	34	0.022	0.044	.	0.9	3.9	0.004	5.6
2G	AI44P	70	0.202	0.021	2.8	0.7	5.0	0.001	1.2
2H	AJ05	48	0.119	0.032	1.5	1.1	4.3	0.001	0.7
3D	AI31P	.	0.148	0.015	1.8	.	1.1	0.001	1.7
5K	AH04P	.	0.245	0.015	1.5	0.1	.	0.000	1.8
6J	AH07P	.	0.033	0.024	.	1.8	.	0.001	2.8
7H	AH32	95	0.183	0.040	1.8	1.5	3.8	0.002	2.2
7J	AH79P	.	0.409	0.023	35.2	0.2	.	0.000	5.8

YEAR=2 SITETYPE=RIVER

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
5J	AG07P	72	0.213	0.120	1.2	1.0	8.1	0.004	1.2
6H	AH09P	69	0.483	0.095	2.5	1.4	8.2	0.003	0.4

BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR RATIO VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=3 SITETYPE=OCEANIC --

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
1A	FB25P	79	0.400	0.082	2.0	1.2	5.1	0.010	1.7
1A	FB27P	73	0.433	0.073	2.2	1.2	5.8	0.013	1.8
1A	FB29P	83	0.400	0.089	2.1	1.5	8.2	0.009	1.7
1B	FB33P	.	0.379	0.181	2.1	0.6	.	0.002	0.1
1B	FB35P	.	0.552	0.112	2.0	0.6	.	0.015	1.3
1B	FB37P	75	0.511	0.158	2.0	1.3	5.8	0.023	1.8
1C	FB49P	47	0.533	0.134	1.8	0.8	23.1	0.011	2.6
1C	FB51P	74	0.613	0.202	1.7	1.3	4.2	0.022	1.9
1C	FB53P	.	0.724	0.161	1.7	2.3	.	0.028	1.7
1D	FB09P	89	0.201	0.080	2.4	1.0	19.0	0.001	1.5
1D	FB11P	82	0.218	0.081	2.2	1.1	7.7	0.002	20.7
1D	FB13P	.	0.175	0.101	2.1	1.9	24.0	0.001	17.2
1E	FB17P	85	0.190	0.089	2.3	1.7	3.0	0.001	1.7
1E	FB19P	79	0.182	0.097	2.3	0.7	5.3	0.002	0.9
1E	FB21P	.	0.180	0.085	2.0	0.4	.	0.003	1.4
2A	FB41P	78	0.442	0.139	1.9	0.8	8.3	0.021	2.2
2A	FB43P	70	0.459	0.174	1.8	0.7	7.2	0.034	2.0
2A	FB45P	73	0.443	0.170	2.0	0.9	5.1	0.029	2.0
2B	FB65P	77	0.483	0.114	2.1	1.3	4.0	0.019	3.3
2B	FB67P	71	0.197	0.355	.	1.0	5.5	0.015	2.4
2B	FB69P	70	1.511	0.125	4.0	1.1	8.5	0.008	0.4
2C	FB57P	77	0.562	0.164	1.6	1.4	3.6	0.026	1.8
2C	FB59P	75	0.559	0.146	1.7	1.4	3.5	0.041	1.9
2C	FB61P	81	0.550	0.164	1.6	1.6	3.4	0.025	1.8
2D	FB73P	81	0.269	0.147	2.2	1.[illegible]	6.1	0.010	2.7
2D	FB75P	80	0.543	0.155	1.8	1.3	6.1	0.019	1.6
2D	FB77P	77	0.451	0.152	2.1	1.0	6.9	0.019	4.2
2E	FD90P	67	0.485	0.170	2.2	0.7	5.4	0.018	1.4
2E	FD92P	71	0.491	0.160	2.2	1.0	6.1	0.014	1.6
2E	FD94P	66	0.483	0.162	2.2	0.6	12.8	0.009	1.6
2F	FB01P	.	0.370	0.381	2.0	0.5	.	0.007	2.7
2F	FB03P	.	0.400	0.255	1.9	0.6	.	0.003	3.1
2F	FB05P	87	0.451	0.383	2.0	1.1	10.4	0.008	0.7
3A	FE13P	82	0.445	0.138	2.2	1.3	5.8	0.009	1.0
3A	FE15P	78	0.459	0.140	2.2	1.4	3.6	0.013	1.6
3A	FE17P	75	0.453	0.128	2.3	1.3	4.1	0.016	1.7
3B	FD98P	73	0.441	0.140	2.1	1.2	4.9	0.012	1.6
3B	FE07P	75	0.437	0.115	2.3	1.2	4.2	0.010	1.6
3B	FE09P	81	0.436	0.115	2.4	1.4	3.9	0.011	1.6
4A	FE29P	83	0.429	0.170	2.3	1.0	4.4	0.017	1.0
4A	FE31P	82	0.455	0.227	2.9	0.9	4.6	0.015	2.1
4A	FE33P	82	0.404	0.161	2.2	0.9	1.6	0.009	1.7
4B	FE21P	81	0.390	0.183	2.2	2.2	1.9	0.016	1.0
4B	FE23P	79	0.408	0.180	2.2	1.4	3.1	0.014	1.1
4B	FE25P	72	0.393	0.146	2.3	1.1	7.2	0.017	3.0
4C	FE45P	76	0.436	0.130	2.3	1.5	3.3	0.014	1.1
4C	FE47P	70	0.378	0.168	2.3	1.2	3.6	0.016	2.3
4C	FE49P	72	0.405	0.175	2.3	1.0	4.1	0.016	2.1
50	FE61P	87	0.377	0.244	2.4	1.2	5.2	0.005	0.4
50	FE63P	76	0.400	0.162	2.3	1.3	3.6	0.017	1.0
50	FE65P	79	0.379	0.160	2.3	1.2	3.5	0.013	1.1

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BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR RATIO VARIABLES

TYPE OF SEDIMENT = BULK

-- YEAR=3 SITETYPE=OCEANIC --

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
510	FD66P	83	0.445	0.148	2.2	0.9	4.6	0.014	1.8
510	FD68P	88	0.478	0.088	1.8	1.0	5.7	0.011	2.6
510	FD70P	97	0.442	0.205	2.2	1.0	4.7	0.010	1.1
51	FE53P	77	0.123	0.442	1.3	0.8	1.8	0.017	2.1
51	FE55P	76	0.284	0.333	.	1.4	3.0	0.011	0.4
51	FE57	78	0.357	0.157	2.2	1.2	3.3	0.001	0.1
55	FD82P	.	0.443	0.185	1.8	1.0	10.3	0.012	1.1
55	FD84P	88	0.449	0.152	2.3	1.7	3.6	0.003	1.4
55	FD86P	79	0.440	0.193	2.3	1.3	3.1	0.014	1.3
5A	FD50P	81	0.442	0.133	2.2	1.4	3.5	0.014	1.9
5A	FD52P	81	0.434	0.140	2.2	1.6	3.5	0.016	1.7
5A	FD54P	68	0.455	0.131	2.2	1.8	3.6	0.018	2.1
5B	FC92P	90	0.478	0.190	2.1	1.4	3.8	0.013	11.4
5B	FC94P	87	0.496	0.180	1.9	1.5	3.4	0.018	2.3
5B	FC96P	83	0.428	0.172	2.4	1.4	3.4	0.013	1.4
5D	FE69P	81	0.415	0.115	2.5	1.3	3.5	0.013	2.9
5D	FE71P	80	0.430	0.119	2.5	1.4	3.5	0.010	1.9
5D	FE75P	78	0.427	0.090	2.4	1.7	2.8	0.009	1.6
5E	FC84P	59	0.489	0.199	2.4	0.9	9.9	0.030	10.5
5E	FC86P	81	0.566	0.135	2.1	1.3	3.6	0.014	8.7
5E	FC88P	87	0.478	0.184	2.2	1.3	4.0	0.015	10.2
5F	FD58P	73	0.416	0.140	2.2	1.2	4.1	0.014	0.5
5F	FD60P	78	0.438	0.094	2.3	1.7	3.6	0.014	2.1
5F	FD62P	83	0.431	0.089	2.3	1.8	2.8	0.008	0.4
5G	FD76P	63	0.443	0.159	2.2	0.9	6.0	0.017	1.1
5G	FD78P	67	0.450	0.136	2.1	1.5	6.4	0.013	2.2
5G	FD80P	71	0.418	0.323	2.4	1.3	4.4	0.018	1.1
5H	FE37P	58	0.384	0.071	2.2	0.7	20.3	0.004	1.7
5H	FE39P	69	0.419	0.108	2.2	1.0	4.1	0.015	1.7
5H	FE41P	70	0.315	0.180	2.3	1.0	4.6	0.015	1.7
6A	FC76P	82	0.486	0.123	2.3	3.1	2.7	0.013	7.7
6A	FC78P	93	0.470	0.137	2.5	1.7	3.6	0.008	11.5
6A	FC80P	72	0.495	0.136	3.1	1.3	4.0	0.024	11.8
6B	FC52P	88	0.611	0.159	1.8	2.4	4.7	0.030	4.1
6B	FC54P	85	0.609	0.170	2.0	2.3	4.7	0.033	3.8
6B	FC56P	89	0.619	0.092	2.0	2.7	4.1	0.038	3.1
6C	FC68P	90	0.488	0.148	2.1	1.9	3.7	0.014	8.3
6C	FC70P	82	0.488	0.171	2.3	1.3	4.6	0.018	7.0
6C	FC72P	42	0.482	0.174	2.2	1.0	7.1	0.058	13.4
6D	FC80P	86	0.482	0.184	2.2	1.7	3.2	0.017	2.2
6D	FC82P	79	0.344	0.068	1.7	2.0	4.4	0.027	5.9
6D	FC84P	85	0.435	0.171	2.2	1.7	4.8	0.021	1.3
6F	FC36P	88	0.550	0.084	1.6	1.8	4.9	0.011	3.6
6F	FC38P	78	0.554	0.183	1.9	1.7	3.9	0.024	1.9
6F	FC40P	80	0.505	0.190	2.3	1.9	5.4	0.017	1.9
6G	FC44P	81	0.489	0.178	1.7	1.5	4.2	0.011	0.4
6G	FC46P	88	0.593	0.083	0.7	1.6	3.8	0.008	4.3
6G	FC48P	79	0.549	0.083	1.1	1.6	5.2	.	.
7A	FC28P	89	0.506	0.121	2.0	1.9	2.9	0.014	3.3
7A	FC30P	88	0.527	0.053	1.1	2.0	3.9	0.017	5.5
7A	FC32P	73	0.509	0.097	2.5	1.7	4.1	0.024	1.6

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                 BEAUFORT SEA MONITORING PROGRAM-- BULK SEDIMENT SAMPLE DATA
                          RAW DATA LISTING FOR RATIO VARIABLES

                                 TYPE OF SEDIMENT = BULK

--------------------------------------------------- YEAR=3 SITETYPE=OCEANIC ---------------------------------------------------

    STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

      7B       FC04P      81      0.486       0.161         2.3       1.8    4.8     0.017       2.1
      7B       FC06P      82      0.482       0.163         1.9       1.7    4.2     0.022       2.2
      7B       FC08P      74      0.582       0.069         1.4       1.7    5.1     0.037       6.4
      7C       FB95P      78      0.486       0.153         2.3       1.5    3.6     0.061       5.4
      7C       FB97P      89      0.472       0.134         2.1       1.6    5.4     0.038       6.9
      7C       FB99P      77      0.482       0.143         2.2       1.5    3.7     0.028       2.9
      7D       FB87P      76      0.487       0.150         2.3       1.8    3.2     0.017      21.3
      7D       FB89P      74      0.421       0.153         2.5       1.4    3.3     0.026       2.2
      7D       FB91P      73      0.478       0.129         2.4       1.3    4.9     0.013       1.7
      7E       FC12P      84      0.612       0.151         3.1       2.3    4.4     0.018       1.6
      7E       FC14P      81      0.620       0.142         2.6       2.3    4.8     0.027       2.0
      7E       FC16P      86      0.554       0.145         2.7       2.3    2.4     0.021       2.2
      7G       FC20P      82      0.640       0.147         3.3       2.4    5.0     0.022       2.0
      7G       FC22P      85      0.696       0.160         3.6       2.3    4.5     0.023       1.7
      7G       FC24P      85      0.666       0.082         2.7       1.9    6.7     0.020       3.6

--------------------------------------------------- YEAR=3 SITETYPE=RIVER -----------------------------------------------------

    STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

      2J1       FE04      88      0.404       0.321         2.2       1.1    8.0     0.001       0.1
      2J2       FE05      90      0.413       0.390         2.2       0.9    6.2     0.000       0.1
      5L1       FB81      81      0.211       0.081         1.3       1.3    2.2     0.000       0.3
      5L2       FB82      80      0.228       0.111         1.6       1.3    2.1     0.001       0.1
      5L3       FB83      82      0.283       0.121         1.4       1.3    3.1     0.001       0.1
      5M1       FB84      56      0.190       0.145         1.7       0.8    3.0     0.000       0.2
      5M2       FB85      42      0.179       0.173         2.3       0.7    4.7     0.001       0.3
      5M3       FB86       .      0.239       0.315         2.0       0.5     .      0.000       0.1
      6K1       FE01      70      0.605       0.107         2.2       1.1    4.4     0.003       0.3
      6K2       FE02      76      0.550       0.094         2.7       1.7    3.9     0.001       0.1
      6K3       FE03      68      0.555       0.122         1.8       1.4    4.2     0.003       0.3
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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = FINE

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
2E	100	.	.	.	.	.	.	.	.	.	.
2E	100	.	.	.	.	.	.	.	.	.	.
2E	100	.	.	.	.	.	.	.	.	.	.
2E	100	.	.	.	.	.	.	.	.	.	.
2E	100	.	.	.	.	.	.	.	.	.	.
2E	100	.	.	.	.	.	.	.	.	.	.
2F	100	.	.	.	.	.	.	.	.	.	.
2F	100	.	.	.	.	.	.	.	.	.	.
2F	100	.	.	.	.	.	.	.	.	.	.
2F	100	.	.	.	.	.	.	.	.	.	.
2F	100	.	.	.	.	.	.	.	.	.	.
2F	100	.	.	.	.	.	.	.	.	.	.
3A	100	.	.	.	.	.	.	.	.	.	.
3A	100	.	.	.	.	.	.	.	.	.	.
3A	100	.	.	.	.	.	.	.	.	.	.
3A	100	.	.	.	.	.	.	.	.	.	.
3A	100	.	.	.	.	.	.	.	.	.	.
3A	100	.	.	.	.	.	.	.	.	.	.
3B	100	.	.	.	.	.	.	.	.	.	.
3B	100	.	.	.	.	.	.	.	.	.	.
3B	100	.	.	.	.	.	.	.	.	.	.
3B	100	.	.	.	.	.	.	.	.	.	.
3B	100	.	.	.	.	.	.	.	.	.	.
3B	100	.	.	.	.	.	.	.	.	.	.
4A	100	.	.	.	.	.	.	.	.	.	.
4A	100	.	.	.	.	.	.	.	.	.	.
4A	100	.	.	.	.	.	.	.	.	.	.
4A	100	.	.	.	.	.	.	.	.	.	.
4A	100	.	.	.	.	.	.	.	.	.	.
4A	100	.	.	.	.	.	.	.	.	.	.
4B	100	.	.	.	.	.	.	.	.	.	.
4B	100	.	.	.	.	.	.	.	.	.	.
4B	100	.	.	.	.	.	.	.	.	.	.
4B	100	.	.	.	.	.	.	.	.	.	.
4B	100	.	.	.	.	.	.	.	.	.	.
4B	100	.	.	.	.	.	.	.	.	.	.
4C	100	.	.	.	.	.	.	.	.	.	.
4C	100	.	.	.	.	.	.	.	.	.	.
4C	100	.	.	.	.	.	.	.	.	.	.
4C	100	.	.	.	.	.	.	.	.	.	.
4C	100	.	.	.	.	.	.	.	.	.	.
4C	100	.	.	.	.	.	.	.	.	.	.
S10	100	.	.	.	.	.	.	.	.	.	.
S10	100	.	.	.	.	.	.	.	.	.	.
S10	100	.	.	.	.	.	.	.	.	.	.
S10	100	.	.	.	.	.	.	.	.	.	.
S10	100	.	.	.	.	.	.	.	.	.	.
S10	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = FINE

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
S1	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.
S1	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S2	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
S5	100	.	.	.	.	.	.	.	.	.	.
SA	100	.	.	.	.	.	.	.	.	.	.
SA	100	.	.	.	.	.	.	.	.	.	.
SA	100	.	.	.	.	.	.	.	.	.	.
SA	100	.	.	.	.	.	.	.	.	.	.
SA	100	.	.	.	.	.	.	.	.	.	.
SA	100	.	.	.	.	.	.	.	.	.	.
SB	100	.	.	.	.	.	.	.	.	.	.
SB	100	.	.	.	.	.	.	.	.	.	.
SB	100	.	.	.	.	.	.	.	.	.	.
SB	100	.	.	.	.	.	.	.	.	.	.
SB	100	.	.	.	.	.	.	.	.	.	.
SB	100	.	.	.	.	.	.	.	.	.	.
SD	100	.	.	.	.	.	.	.	.	.	.
SD	100	.	.	.	.	.	.	.	.	.	.
SD	100	.	.	.	.	.	.	.	.	.	.
SD	100	.	.	.	.	.	.	.	.	.	.
SD	100	.	.	.	.	.	.	.	.	.	.
SD	100	.	.	.	.	.	.	.	.	.	.
SE	100	.	.	.	.	.	.	.	.	.	.
SE	100	.	.	.	.	.	.	.	.	.	.
SE	100	.	.	.	.	.	.	.	.	.	.
SE	100	.	.	.	.	.	.	.	.	.	.
SE	100	.	.	.	.	.	.	.	.	.	.
SE	100	.	.	.	.	.	.	.	.	.	.
SE	100	.	.	.	.	.	.	.	.	.	.
SF	100	.	.	.	.	.	.	.	.	.	.
SF	100	.	.	.	.	.	.	.	.	.	.
SF	100	.	.	.	.	.	.	.	.	.	.
SF	100	.	.	.	.	.	.	.	.	.	.
SF	100	.	.	.	.	.	.	.	.	.	.
SF	100	.	.	.	.	.	.	.	.	.	.
SG	100	.	.	.	.	.	.	.	.	.	.
SG	100	.	.	.	.	.	.	.	.	.	.
SG	100	.	.	.	.	.	.	.	.	.	.
SG	100	.	.	.	.	.	.	.	.	.	.

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = FINE

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
5G	100	.	.	.	.	.	.	.	.	.	.
5G	100	.	.	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.	.	.
6A	100	.	.	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.	.	.
6B	100	.	.	.	.	.	.	.	.	.	.
6C	100	.	.	.	.	.	.	.	.	.	.
6C	100	.	.	.	.	.	.	.	.	.	.
6C	100	.	.	.	.	.	.	.	.	.	.
6C	100	.	.	.	.	.	.	.	.	.	.
6C	100	.	.	.	.	.	.	.	.	.	.
6C	100	.	.	.	.	.	.	.	.	.	.
6D	100	.	.	.	.	.	.	.	.	.	.
6D	100	.	.	.	.	.	.	.	.	.	.
6D	100	.	.	.	.	.	.	.	.	.	.
6D	100	.	.	.	.	.	.	.	.	.	.
6D	100	.	.	.	.	.	.	.	.	.	.
6D	100	.	.	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.	.	.
6F	100	.	.	.	.	.	.	.	.	.	.
7A	100	.	.	.	.	.	.	.	.	.	.
7A	100	.	.	.	.	.	.	.	.	.	.
7A	100	.	.	.	.	.	.	.	.	.	.
7A	100	.	.	.	.	.	.	.	.	.	.
7A	100	.	.	.	.	.	.	.	.	.	.
7A	100	.	.	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.	.	.
7B	100	.	.	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.	.	.
7C	100	.	.	.	.	.	.	.	.	.	.
7E	100	.	.	.	.	.	.	.	.	.	.

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                    BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                        RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

                                    TYPE OF SEDIMENT = FINE

------------------------------------------------- YEAR=1 SITETYPE=OCEANIC -------------------------------------------------

        STATION    SAMPLE    N    F    P    D    PAH    PHYTANE    PRISTANE    LALK    TALK    TOT

          7E        100      .    .    .    .     .        .           .         .       .      .
          7E        100      .    .    .    .     .        .           .         .       .      .
          7E        100      .    .    .    .     .        .           .         .       .      .
          7E        100      .    .    .    .     .        .           .         .       .      .
          7E        100      .    .    .    .     .        .           .         .       .      .
          7G        100      .    .    .    .     .        .           .         .       .      .
          7G        100      .    .    .    .     .        .           .         .       .      .
          7G        100      .    .    .    .     .        .           .         .       .      .
          7G        100      .    .    .    .     .        .           .         .       .      .
          7G        100      .    .    .    .     .        .           .         .       .      .
          7G        100      .    .    .    .     .        .           .         .       .      .
```

BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = FINE

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
1A	AJ94	0.15	0.085	0.13	0.025	0.27	0.050	0.089	1.15	22.03	24.79
1A	AJ95	0.14	0.049	0.13	0.021	0.21	0.048	0.072	1.02	9.83	19.51
1A	AJ96	0.15	0.052	0.14	0.025	0.22	0.086	0.081	1.23	14.80	37.22
1B	AI95P	.	.	.	.	.	.	.	.	.	.
1B	AI97P	.	.	.	.	.	.	.	.	.	.
1B	AI99P	.	.	.	.	.	.	.	.	.	.
1C	AI62P	.	.	.	.	.	.	.	.	.	.
1C	AI64P	.	.	.	.	.	.	.	.	.	.
1C	AI66P	.	.	.	.	.	.	.	.	.	.
1D	AI70P	.	.	.	.	.	.	.	.	.	.
1D	AI72P	.	.	.	.	.	.	.	.	.	.
1D	AI74P	.	.	.	.	.	.	.	.	.	.
1E	AI78P	.	.	.	.	.	.	.	.	.	.
1E	AI80P	.	.	.	.	.	.	.	.	.	.
1E	AI82P	.	.	.	.	.	.	.	.	.	.
2A	AJ08P	.	.	.	.	.	.	.	.	.	.
2A	AJ10P	.	.	.	.	.	.	.	.	.	.
2A	AJ12P	.	.	.	.	.	.	.	.	.	.
2B	AJ16P	.	.	.	.	.	.	.	.	.	.
2B	AJ18P	.	.	.	.	.	.	.	.	.	.
2B	AJ20P	.	.	.	.	.	.	.	.	.	.
2C	AI54P	.	.	.	.	.	.	.	.	.	.
2C	AI56P	.	.	.	.	.	.	.	.	.	.
2C	AI58P	.	.	.	.	.	.	.	.	.	.
2D	AJ26P	.	.	.	.	.	.	.	.	.	.
2D	AJ28P	.	.	.	.	.	.	.	.	.	.
2D	AJ30P	.	.	.	.	.	.	.	.	.	.
2E	AJ34P	.	.	.	.	.	.	.	.	.	.
2E	AJ36P	.	.	.	.	.	.	.	.	.	.
2E	AJ38P	.	.	.	.	.	.	.	.	.	.
2F	AI34P	.	.	.	.	.	.	.	.	.	.
2F	AI36P	.	.	.	.	.	.	.	.	.	.
2F	AI38P	.	.	.	.	.	.	.	.	.	.
3A	AI22P	.	.	.	.	.	.	.	.	.	.
3A	AI24P	.	.	.	.	.	.	.	.	.	.
3A	AI26P	.	.	.	.	.	.	.	.	.	.
3B	AI14P	.	.	.	.	.	.	.	.	.	.
3B	AI16P	.	.	.	.	.	.	.	.	.	.
3B	AI18P	.	.	.	.	.	.	.	.	.	.
4A	AI06P	.	.	.	.	.	.	.	.	.	.
4A	AI08P	.	.	.	.	.	.	.	.	.	.
4A	AI10P	.	.	.	.	.	.	.	.	.	.
4B	AH97P	.	.	.	.	.	.	.	.	.	.
4B	AH99P	.	.	.	.	.	.	.	.	.	.
4B	AI01P	.	.	.	.	.	.	.	.	.	.
4C	AJ42P	.	.	.	.	.	.	.	.	.	.
4C	AJ44P	.	.	.	.	.	.	.	.	.	.
4C	AJ46P	.	.	.	.	.	.	.	.	.	.
5O	AG41P	.	.	.	.	.	.	.	.	.	.
5O	AG43P	.	.	.	.	.	.	.	.	.	.
5O	AG45P	.	.	.	.	.	.	.	.	.	.

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = FINE

--- YEAR=2 SITETYPE=OCEANIC ---

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
510	AG17P	.	.	.	.	.	.	.	.	.	.
510	AG19P	.	.	.	.	.	.	.	.	.	.
510	AG21P	.	.	.	.	.	.	.	.	.	.
51	AG33P	.	.	.	.	.	.	.	.	.	.
51	AG35P	.	.	.	.	.	.	.	.	.	.
51	AG37P	.	.	.	.	.	.	.	.	.	.
55	AJ97	0.34	0.087	0.25	0.033	0.33	0.072	0.148	2.54	14.49	24.85
55	AJ98	0.40	0.102	0.31	0.052	0.30	0.084	0.115	1.76	10.18	17.86
55	AJ99	0.28	0.083	0.22	0.019	0.33	0.082	0.132	2.46	12.48	20.75
5A	AG49P	.	.	.	.	.	.	.	.	.	.
5A	AG51P	.	.	.	.	.	.	.	.	.	.
5A	AG55P	.	.	.	.	.	.	.	.	.	.
5B	AG57P	.	.	.	.	.	.	.	.	.	.
5B	AG59P	.	.	.	.	.	.	.	.	.	.
5B	AG61P	.	.	.	.	.	.	.	.	.	.
5D	AG09P	.	.	.	.	.	.	.	.	.	.
5D	AG11P	.	.	.	.	.	.	.	.	.	.
5D	AG13P	.	.	.	.	.	.	.	.	.	.
5E	AG65P	.	.	.	.	.	.	.	.	.	.
5E	AG67P	.	.	.	.	.	.	.	.	.	.
5E	AG69P	.	.	.	.	.	.	.	.	.	.
5F	AH86P	.	.	.	.	.	.	.	.	.	.
5F	AH88P	.	.	.	.	.	.	.	.	.	.
5F	AH90P	.	.	.	.	.	.	.	.	.	.
5G	AI46P	.	.	.	.	.	.	.	.	.	.
5G	AI48P	.	.	.	.	.	.	.	.	.	.
5G	AI50P	.	.	.	.	.	.	.	.	.	.
5H	AJ50P	.	.	.	.	.	.	.	.	.	.
5H	AJ52P	.	.	.	.	.	.	.	.	.	.
5H	AJ54P	.	.	.	.	.	.	.	.	.	.
6A	AG73P	.	.	.	.	.	.	.	.	.	.
6A	AG75P	.	.	.	.	.	.	.	.	.	.
6A	AG77P	.	.	.	.	.	.	.	.	.	.
6B	AG81P	.	.	.	.	.	.	.	.	.	.
6B	AG83P	.	.	.	.	.	.	.	.	.	.
6B	AG85P	.	.	.	.	.	.	.	.	.	.
6C	AG89P	.	.	.	.	.	.	.	.	.	.
6C	AG91P	.	.	.	.	.	.	.	.	.	.
6C	AG93P	.	.	.	.	.	.	.	.	.	.
6D	EF00	0.74	0.131	0.53	0.077	0.56	0.135	0.280	3.84	17.20	30.83
6D	EF01	0.56	0.120	0.37	0.041	0.59	0.138	0.274	3.39	15.88	30.05
6D	EF02	0.80	0.217	0.81	0.122	0.87	0.150	0.221	2.77	17.12	45.31
6F	AH11P	.	.	.	.	.	.	.	.	.	.
6F	AH18P	.	.	.	.	.	.	.	.	.	.
6F	AH20P	.	.	.	.	.	.	.	.	.	.
6G	AH75P	.	.	.	.	.	.	.	.	.	.
6G	AH77P	.	.	.	.	.	.	.	.	.	.
6G	AH81P	.	.	.	.	.	.	.	.	.	.
7A	AH67P	.	.	.	.	.	.	.	.	.	.
7A	AH69P	.	.	.	.	.	.	.	.	.	.
7A	AH71P	.	.	.	.	.	.	.	.	.	.

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                  BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                       RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

                                 TYPE OF SEDIMENT = FINE

-------------------------------------- YEAR=2 SITETYPE=OCEANIC --------------------------------------

     STATION   SAMPLE    N    F    P    D    PAH    PHYTANE    PRISTANE    LALK    TALK    TOT

       7B      AH50P     .    .    .    .     .        .           .         .       .       .
       7B      AH52P     .    .    .    .     .        .           .         .       .       .
       7B      AH54P     .    .    .    .     .        .           .         .       .       .
       7C      AH41P     .    .    .    .     .        .           .         .       .       .
       7C      AH43P     .    .    .    .     .        .           .         .       .       .
       7C      AH45P     .    .    .    .     .        .           .         .       .       .
       7D      AH33P     .    .    .    .     .        .           .         .       .       .
       7D      AH35P     .    .    .    .     .        .           .         .       .       .
       7D      AH37P     .    .    .    .     .        .           .         .       .       .
       7E      AH59P     .    .    .    .     .        .           .         .       .       .
       7E      AH61P     .    .    .    .     .        .           .         .       .       .
       7E      AH63P     .    .    .    .     .        .           .         .       .       .
       7G      AH24P     .    .    .    .     .        .           .         .       .       .
       7G      AH26P     .    .    .    .     .        .           .         .       .       .
       7G      AH28P     .    .    .    .     .        .           .         .       .       .

-------------------------------------- YEAR=2 SITETYPE=PEAT --------------------------------------

     STATION   SAMPLE    N    F    P    D    PAH    PHYTANE    PRISTANE    LALK    TALK    TOT

       1F      AJ08      .    .    .    .     .        .           .         .       .       .
       2G      AI44P     .    .    .    .     .        .           .         .       .       .
       2H      AJ05      .    .    .    .     .        .           .         .       .       .
       3D      AI31P     .    .    .    .     .        .           .         .       .       .
       5K      AH84P     .    .    .    .     .        .           .         .       .       .
       6J      AH07P     .    .    .    .     .        .           .         .       .       .
       7H      AH32      .    .    .    .     .        .           .         .       .       .
       7J      AH79P     .    .    .    .     .        .           .         .       .       .

-------------------------------------- YEAR=2 SITETYPE=RIVER --------------------------------------

     STATION   SAMPLE    N    F    P    D    PAH    PHYTANE    PRISTANE    LALK    TALK    TOT

       5J      AG07P     .    .    .    .     .        .           .         .       .       .
       6H      AH08P     .    .    .    .     .        .           .         .       .       .
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                       BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                           RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

                                       TYPE OF SEDIMENT = FINE

------------------------------------------- YEAR=3 SITETYPE=OCEANIC -------------------------------------------

            STATION    SAMPLE     N     F     P     D     PAH    PHYTANE    PRISTANE    LALK    TALK    TOT

              1A       FB25P      .     .     .     .      .        .          .         .       .       .
              1A       FB27P      .     .     .     .      .        .          .         .       .       .
              1A       FB29P      .     .     .     .      .        .          .         .       .       .
              1B       FB33P      .     .     .     .      .        .          .         .       .       .
              1B       FB35P      .     .     .     .      .        .          .         .       .       .
              1B       FB37P      .     .     .     .      .        .          .         .       .       .
              1C       FB49P      .     .     .     .      .        .          .         .       .       .
              1C       FB51P      .     .     .     .      .        .          .         .       .       .
              1C       FB53P      .     .     .     .      .        .          .         .       .       .
              1D       FB09P      .     .     .     .      .        .          .         .       .       .
              1D       FB11P      .     .     .     .      .        .          .         .       .       .
              1D       FB13P      .     .     .     .      .        .          .         .       .       .
              1E       FB17P      .     .     .     .      .        .          .         .       .       .
              1E       FB19P      .     .     .     .      .        .          .         .       .       .
              1E       FB21P      .     .     .     .      .        .          .         .       .       .
              2A       FB41P      .     .     .     .      .        .          .         .       .       .
              2A       FB43P      .     .     .     .      .        .          .         .       .       .
              2A       FB45P      .     .     .     .      .        .          .         .       .       .
              2B       FB65P      .     .     .     .      .        .          .         .       .       .
              2B       FB67P      .     .     .     .      .        .          .         .       .       .
              2B       FB69P      .     .     .     .      .        .          .         .       .       .
              2C       FB57P      .     .     .     .      .        .          .         .       .       .
              2C       FB59P      .     .     .     .      .        .          .         .       .       .
              2C       FB61P      .     .     .     .      .        .          .         .       .       .
              2D       FB73P      .     .     .     .      .        .          .         .       .       .
              2D       FB75P      .     .     .     .      .        .          .         .       .       .
              2D       FB77P      .     .     .     .      .        .          .         .       .       .
              2E       FD90P      .     .     .     .      .        .          .         .       .       .
              2E       FD92P      .     .     .     .      .        .          .         .       .       .
              2E       FD94P      .     .     .     .      .        .          .         .       .       .
              2F       FB01P      .     .     .     .      .        .          .         .       .       .
              2F       FB03P      .     .     .     .      .        .          .         .       .       .
              2F       FB05P      .     .     .     .      .        .          .         .       .       .
              3A       FE13P      .     .     .     .      .        .          .         .       .       .
              3A       FE15P      .     .     .     .      .        .          .         .       .       .
              3A       FE17P      .     .     .     .      .        .          .         .       .       .
              3B       FD98P      .     .     .     .      .        .          .         .       .       .
              3B       FE07P      .     .     .     .      .        .          .         .       .       .
              3B       FE09P      .     .     .     .      .        .          .         .       .       .
              4A       FE29P      .     .     .     .      .        .          .         .       .       .
              4A       FE31P      .     .     .     .      .        .          .         .       .       .
              4A       FE33P      .     .     .     .      .        .          .         .       .       .
              4B       FE21P      .     .     .     .      .        .          .         .       .       .
              4B       FE23P      .     .     .     .      .        .          .         .       .       .
              4B       FE25P      .     .     .     .      .        .          .         .       .       .
              4C       FE45P      .     .     .     .      .        .          .         .       .       .
              4C       FE47P      .     .     .     .      .        .          .         .       .       .
              4C       FE49P      .     .     .     .      .        .          .         .       .       .
              50       FE61P      .     .     .     .      .        .          .         .       .       .
              50       FE63P      .     .     .     .      .        .          .         .       .       .
              50       FE65P      .     .     .     .      .        .          .         .       .       .
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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

TYPE OF SEDIMENT = FINE

--- YEAR=3 SITETYPE=OCEANIC ---

STATION	SAMPLE	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
510	FD66P	.	.	.	.	.	.	.	.	.	.
510	FD68P	.	.	.	.	.	.	.	.	.	.
510	FD70P	.	.	.	.	.	.	.	.	.	.
51	FE53P	.	.	.	.	.	.	.	.	.	.
51	FE55P	.	.	.	.	.	.	.	.	.	.
51	FE57	.	.	.	.	.	.	.	.	.	.
55	FD62P	.	.	.	.	.	.	.	.	.	.
55	FD64P	.	.	.	.	.	.	.	.	.	.
55	FD66P	.	.	.	.	.	.	.	.	.	.
5A	FD50P	.	.	.	.	.	.	.	.	.	.
5A	FD52P	.	.	.	.	.	.	.	.	.	.
5A	FD54P	.	.	.	.	.	.	.	.	.	.
5B	FC92P	.	.	.	.	.	.	.	.	.	.
5B	FC94P	.	.	.	.	.	.	.	.	.	.
5B	FC96P	.	.	.	.	.	.	.	.	.	.
5D	FE69P	.	.	.	.	.	.	.	.	.	.
5D	FE71P	.	.	.	.	.	.	.	.	.	.
5D	FE73P	.	.	.	.	.	.	.	.	.	.
5E	FC84P	.	.	.	.	.	.	.	.	.	.
5E	FC86P	.	.	.	.	.	.	.	.	.	.
5E	FC88P	.	.	.	.	.	.	.	.	.	.
5F	FD58P	.	.	.	.	.	.	.	.	.	.
5F	FD60P	.	.	.	.	.	.	.	.	.	.
5F	FD62P	.	.	.	.	.	.	.	.	.	.
5G	FD76P	.	.	.	.	.	.	.	.	.	.
5G	FD78P	.	.	.	.	.	.	.	.	.	.
5G	FD80P	.	.	.	.	.	.	.	.	.	.
5H	FE37P	.	.	.	.	.	.	.	.	.	.
5H	FE39P	.	.	.	.	.	.	.	.	.	.
5H	FE41P	.	.	.	.	.	.	.	.	.	.
6A	FC76P	.	.	.	.	.	.	.	.	.	.
6A	FC78P	.	.	.	.	.	.	.	.	.	.
6A	FC80P	.	.	.	.	.	.	.	.	.	.
6B	FC52P	.	.	.	.	.	.	.	.	.	.
6B	FC54P	.	.	.	.	.	.	.	.	.	.
6B	FC56P	.	.	.	.	.	.	.	.	.	.
6C	FC68P	.	.	.	.	.	.	.	.	.	.
6C	FC70P	.	.	.	.	.	.	.	.	.	.
6C	FC72P	.	.	.	.	.	.	.	.	.	.
6D	FC80P	.	.	.	.	.	.	.	.	.	.
6D	FC82P	.	.	.	.	.	.	.	.	.	.
6D	FC84P	.	.	.	.	.	.	.	.	.	.
6F	FC36P	.	.	.	.	.	.	.	.	.	.
6F	FC38P	.	.	.	.	.	.	.	.	.	.
6F	FC40P	.	.	.	.	.	.	.	.	.	.
6G	FC44P	.	.	.	.	.	.	.	.	.	.
6G	FC46P	.	.	.	.	.	.	.	.	.	.
6G	FC48P	.	.	.	.	.	.	.	.	.	.
7A	FC28P	.	.	.	.	.	.	.	.	.	.
7A	FC30P	.	.	.	.	.	.	.	.	.	.
7A	FC32P	.	.	.	.	.	.	.	.	.	.

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                    BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                         RAW DATA LISTING FOR HYDROCARBON CONCENTRATIONS

                                    TYPE OF SEDIMENT = FINE

------------------------------------------------ YEAR=3 SITETYPE=OCEANIC -----------------------------------------------

           STATION    SAMPLE    N    F    P    D    PAH    PHYTANE    PRISTANE    LALK    TALK    TOT

              7B      FC04P     .    .    .    .     .        .           .         .       .       .
              7B      FC06P     .    .    .    .     .        .           .         .       .       .
              7B      FC08P     .    .    .    .     .        .           .         .       .       .
              7C      FB85P     .    .    .    .     .        .           .         .       .       .
              7C      FB87P     .    .    .    .     .        .           .         .       .       .
              7C      FB89P     .    .    .    .     .        .           .         .       .       .
              7D      FB87P     .    .    .    .     .        .           .         .       .       .
              7D      FB89P     .    .    .    .     .        .           .         .       .       .
              7D      FB81P     .    .    .    .     .        .           .         .       .       .
              7E      FC12P     .    .    .    .     .        .           .         .       .       .
              7E      FC14P     .    .    .    .     .        .           .         .       .       .
              7E      FC16P     .    .    .    .     .        .           .         .       .       .
              7G      FC20P     .    .    .    .     .        .           .         .       .       .
              7G      FC22P     .    .    .    .     .        .           .         .       .       .
              7G      FC24P     .    .    .    .     .        .           .         .       .       .

------------------------------------------------- YEAR=3 SITETYPE=RIVER ------------------------------------------------

           STATION    SAMPLE    N    F    P    D    PAH    PHYTANE    PRISTANE    LALK    TALK    TOT

              2J1     FE04      .    .    .    .     .        .           .         .       .       .
              2J2     FE05      .    .    .    .     .        .           .         .       .       .
              5L1     FB81      .    .    .    .     .        .           .         .       .       .
              5L2     FB82      .    .    .    .     .        .           .         .       .       .
              5L3     FB83      .    .    .    .     .        .           .         .       .       .
              5M1     FB84      .    .    .    .     .        .           .         .       .       .
              5M2     FB85      .    .    .    .     .        .           .         .       .       .
              5M3     FB86      .    .    .    .     .        .           .         .       .       .
              6K1     FE01      .    .    .    .     .        .           .         .       .       .
              6K2     FE02      .    .    .    .     .        .           .         .       .       .
              6K3     FE03      .    .    .    .     .        .           .         .       .       .
```

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
2E	100	.	.	.	.	.	.	.	.	.	2.00	9.3
2E	100	.	.	.	.	.	.	.	.	.	2.70	9.3
2E	100	.	.	.	.	.	.	.	.	.	2.50	5.8
2E	100	.	.	.	.	.	.	.	.	.	2.40	7.2
2E	100	.	.	.	.	.	.	.	.	.	2.30	8.7
2E	100	.	.	.	.	.	.	.	.	.	2.40	8.7
2F	100	.	.	.	.	.	.	.	.	.	3.90	12.0
2F	100	.	.	.	.	.	.	.	.	.	6.20	14.5
2F	100	.	.	.	.	.	.	.	.	.	5.00	16.7
2F	100	.	.	.	.	.	.	.	.	.	5.60	12.7
2F	100	.	.	.	.	.	.	.	.	.	6.50	21.6
2F	100	.	.	.	.	.	.	.	.	.	6.30	13.4
3A	100	.	.	.	.	.	.	.	.	.	8.80	42.1
3A	100	.	.	.	.	.	.	.	.	.	8.80	42.1
3A	100	.	.	.	.	.	.	.	.	.	8.10	40.1
3A	100	.	.	.	.	.	.	.	.	.	7.50	40.1
3A	100	.	.	.	.	.	.	.	.	.	8.20	43.6
3A	100	.	.	.	.	.	.	.	.	.	9.00	43.6
3B	100	.	.	.	.	.	.	.	.	.	8.60	62.7
3B	100	.	.	.	.	.	.	.	.	.	8.50	65.7
3B	100	.	.	.	.	.	.	.	.	.	9.90	65.7
3B	100	.	.	.	.	.	.	.	.	.	9.10	62.3
3B	100	.	.	.	.	.	.	.	.	.	8.90	62.3
3B	100	.	.	.	.	.	.	.	.	.	9.50	70.3
4A	100	.	.	.	.	.	.	.	.	.	6.70	28.4
4A	100	.	.	.	.	.	.	.	.	.	8.60	28.4
4A	100	.	.	.	.	.	.	.	.	.	6.90	29.2
4A	100	.	.	.	.	.	.	.	.	.	5.70	16.6
4A	100	.	.	.	.	.	.	.	.	.	7.40	66.6
4A	100	.	.	.	.	.	.	.	.	.	7.90	25.2
4B	100	.	.	.	.	.	.	.	.	.	4.20	10.1
4B	100	.	.	.	.	.	.	.	.	.	2.40	5.2
4B	100	.	.	.	.	.	.	.	.	.	3.00	5.2
4B	100	.	.	.	.	.	.	.	.	.	3.60	11.6
4B	100	.	.	.	.	.	.	.	.	.	2.70	3.5
4B	100	.	.	.	.	.	.	.	.	.	1.90	3.5
4C	100	.	.	.	.	.	.	.	.	.	6.00	27.7
4C	100	.	.	.	.	.	.	.	.	.	1.60	9.9
4C	100	.	.	.	.	.	.	.	.	.	2.30	9.9
4C	100	.	.	.	.	.	.	.	.	.	3.20	12.4
4C	100	.	.	.	.	.	.	.	.	.	1.90	18.2
4C	100	.	.	.	.	.	.	.	.	.	3.30	18.2
510	100	.	.	.	.	.	.	.	.	.	5.00	36.7
510	100	.	.	.	.	.	.	.	.	.	22.00	26.7
510	100	.	.	.	.	.	.	.	.	.	26.90	26.7
510	100	.	.	.	.	.	.	.	.	.	9.00	55.2
510	100	.	.	.	.	.	.	.	.	.	8.50	22.0
510	100	.	.	.	.	.	.	.	.	.	5.60	35.7
51	100	.	.	.	.	.	.	.	.	.	4.70	13.6
51	100	.	.	.	.	.	.	.	.	.	.	8.7
51	100	.	.	.	.	.	.	.	.	.	5.00	8.7

BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

--- YEAR=1 SITETYPE=OCEANIC ---

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
S1	100	.	.	.	.	.	.	.	.	.	8.00	11.2
S1	100	.	.	.	.	.	.	.	.	.	5.80	11.2
S1	100	.	.	.	.	.	.	.	.	.	3.20	8.2
S1	100	.	.	.	.	.	.	.	.	.	3.50	8.2
S2	100	.	.	.	.	.	.	.	.	.	1.90	4.8
S2	100	.	.	.	.	.	.	.	.	.	2.20	3.4
S2	100	.	.	.	.	.	.	.	.	.	3.00	3.4
S2	100	.	.	.	.	.	.	.	.	.	6.50	4.1
S2	100	.	.	.	.	.	.	.	.	.	2.00	4.1
S2	100	.	.	.	.	.	.	.	.	.	3.10	2.0
S5	100	.	.	.	.	.	.	.	.	.	6.40	36.8
S5	100	.	.	.	.	.	.	.	.	.	8.70	38.7
S5	100	.	.	.	.	.	.	.	.	.	9.00	38.7
S5	100	.	.	.	.	.	.	.	.	.	18.40	32.0
S5	100	.	.	.	.	.	.	.	.	.	11.00	38.0
S5	100	.	.	.	.	.	.	.	.	.	6.90	35.0
SA	100	.	.	.	.	.	.	.	.	.	10.20	62.3
SA	100	.	.	.	.	.	.	.	.	.	10.30	61.8
SA	100	.	.	.	.	.	.	.	.	.	9.70	61.8
SA	100	.	.	.	.	.	.	.	.	.	10.20	66.2
SA	100	.	.	.	.	.	.	.	.	.	10.20	66.2
SA	100	.	.	.	.	.	.	.	.	.	9.70	60.4
SB	100	.	.	.	.	.	.	.	.	.	1.80	3.3
SB	100	.	.	.	.	.	.	.	.	.	2.20	2.4
SB	100	.	.	.	.	.	.	.	.	.	2.70	2.5
SB	100	.	.	.	.	.	.	.	.	.	2.00	2.6
SB	100	.	.	.	.	.	.	.	.	.	1.90	4.8
SB	100	.	.	.	.	.	.	.	.	.	1.80	4.8
SD	100	.	.	.	.	.	.	.	.	.	28.80	70.7
SD	100	.	.	.	.	.	.	.	.	.	28.40	70.7
SD	100	.	.	.	.	.	.	.	.	.	30.20	71.0
SD	100	.	.	.	.	.	.	.	.	.	31.90	71.0
SD	100	.	.	.	.	.	.	.	.	.	28.20	78.0
SD	100	.	.	.	.	.	.	.	.	.	25.60	73.5
SE	100	.	.	.	.	.	.	.	.	.	2.10	4.3
SE	100	.	.	.	.	.	.	.	.	.	.	4.3
SE	100	.	.	.	.	.	.	.	.	.	100	23.3
SE	100	.	.	.	.	.	.	.	.	.	3.00	21.2
SE	100	.	.	.	.	.	.	.	.	.	2.50	5.6
SE	100	.	.	.	.	.	.	.	.	.	2.10	5.6
SE	100	.	.	.	.	.	.	.	.	.	12.00	92.2
SF	100	.	.	.	.	.	.	.	.	.	14.90	85.8
SF	100	.	.	.	.	.	.	.	.	.	14.90	85.8
SF	100	.	.	.	.	.	.	.	.	.	18.40	56.6
SF	100	.	.	.	.	.	.	.	.	.	18.70	56.6
SF	100	.	.	.	.	.	.	.	.	.	18.60	62.6
SF	100	.	.	.	.	.	.	.	.	.	20.40	62.6
SG	100	.	.	.	.	.	.	.	.	.	4.00	21.7
SG	100	.	.	.	.	.	.	.	.	.	6.60	20.0
SG	100	.	.	.	.	.	.	.	.	.	8.90	14.4
SG	100	.	.	.	.	.	.	.	.	.	7.20	14.4

BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
5G	100	.	.	.	.	.	.	.	.	.	6.80	17.3
5G	100	.	.	.	.	.	.	.	.	.	4.70	17.3
6A	100	.	.	.	.	.	.	.	.	.	13.80	67.5
6A	100	.	.	.	.	.	.	.	.	.	9.90	67.6
6A	100	.	.	.	.	.	.	.	.	.	11.80	67.6
6A	100	.	.	.	.	.	.	.	.	.	10.80	60.8
6A	100	.	.	.	.	.	.	.	.	.	11.50	70.0
6A	100	.	.	.	.	.	.	.	.	.	11.00	65.5
6B	100	.	.	.	.	.	.	.	.	.	16.20	84.7
6B	100	.	.	.	.	.	.	.	.	.	16.30	84.7
6B	100	.	.	.	.	.	.	.	.	.	16.60	98.3
6B	100	.	.	.	.	.	.	.	.	.	18.30	92.4
6B	100	.	.	.	.	.	.	.	.	.	18.60	92.4
6B	100	.	.	.	.	.	.	.	.	.	16.10	79.1
6C	100	.	.	.	.	.	.	.	.	.	7.10	21.6
6C	100	.	.	.	.	.	.	.	.	.	4.70	10.6
6C	100	.	.	.	.	.	.	.	.	.	5.20	10.6
6C	100	.	.	.	.	.	.	.	.	.	8.60	56.4
6C	100	.	.	.	.	.	.	.	.	.	5.80	32.0
6C	100	.	.	.	.	.	.	.	.	.	5.60	27.6
6D	100	.	.	.	.	.	.	.	.	.	2.80	12.0
6D	100	.	.	.	.	.	.	.	.	.	4.90	12.0
6D	100	.	.	.	.	.	.	.	.	.	3.60	15.9
6D	100	.	.	.	.	.	.	.	.	.	5.20	15.9
6D	100	.	.	.	.	.	.	.	.	.	2.90	4.8
6D	100	.	.	.	.	.	.	.	.	.	3.40	4.8
6F	100	.	.	.	.	.	.	.	.	.	12.20	44.7
6F	100	.	.	.	.	.	.	.	.	.	9.20	44.7
6F	100	.	.	.	.	.	.	.	.	.	12.40	85.6
6F	100	.	.	.	.	.	.	.	.	.	13.00	81.7
6F	100	.	.	.	.	.	.	.	.	.	4.10	28.7
6F	100	.	.	.	.	.	.	.	.	.	12.10	83.4
7A	100	.	.	.	.	.	.	.	.	.	7.80	70.2
7A	100	.	.	.	.	.	.	.	.	.	12.20	71.4
7A	100	.	.	.	.	.	.	.	.	.	8.30	66.1
7A	100	.	.	.	.	.	.	.	.	.	7.90	66.1
7A	100	.	.	.	.	.	.	.	.	.	16.40	90.0
7A	100	.	.	.	.	.	.	.	.	.	13.80	69.3
7B	100	.	.	.	.	.	.	.	.	.	5.60	17.7
7B	100	.	.	.	.	.	.	.	.	.	4.50	13.9
7B	100	.	.	.	.	.	.	.	.	.	6.90	9.0
7B	100	.	.	.	.	.	.	.	.	.	5.40	9.4
7B	100	.	.	.	.	.	.	.	.	.	5.30	10.3
7B	100	.	.	.	.	.	.	.	.	.	6.00	19.6
7C	100	.	.	.	.	.	.	.	.	.	13.10	83.5
7C	100	.	.	.	.	.	.	.	.	.	14.10	86.6
7C	100	.	.	.	.	.	.	.	.	.	14.00	86.6
7C	100	.	.	.	.	.	.	.	.	.	12.80	82.6
7C	100	.	.	.	.	.	.	.	.	.	13.90	82.6
7C	100	.	.	.	.	.	.	.	.	.	12.70	85.6
7E	100	.	.	.	.	.	.	.	.	.	17.80	63.3

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

-- YEAR=1 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
7E	100	.	.	.	.	.	.	.	.	.	18.10	71.8
7E	100	.	.	.	.	.	.	.	.	.	18.80	71.8
7E	100	.	.	.	.	.	.	.	.	.	17.70	88.7
7E	100	.	.	.	.	.	.	.	.	.	20.30	88.5
7E	100	.	.	.	.	.	.	.	.	.	18.90	88.5
7G	100	.	.	.	.	.	.	.	.	.	42.00	8.9
7G	100	.	.	.	.	.	.	.	.	.	19.40	11.5
7G	100	.	.	.	.	.	.	.	.	.	20.20	10.2
7G	100	.	.	.	.	.	.	.	.	.	20.90	10.2
7G	100	.	.	.	.	.	.	.	.	.	18.70	9.4
7G	100	.	.	.	.	.	.	.	.	.	30.80	10.2

BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
1A	AJ04	404	0.22	81	28.1	18.8	122	87	5.0	3.3	11.50	84.4
1A	AJ05	405	0.18	81	30.3	17.6	119	86	5.0	3.4	9.80	80.0
1A	AJ06	437	0.28	82	32.0	23.3	126	105	5.3	3.5	13.80	81.6
1B	AI05P	610	0.18	79	28.4	15.5	134	98	7.8	4.6	8.20	19.9
1B	AI07P	521	0.11	75	28.6	15.6	118	89	6.9	4.4	8.50	9.2
1B	AI09P	603	0.18	83	28.7	17.7	120	87	7.3	4.7	8.00	15.7
1C	AI62P	545	0.15	81	28.6	17.7	147	102	6.7	3.7	10.40	72.5
1C	AI64P	487	0.17	93	27.3	19.1	144	120	5.2	3.4	8.90	70.7
1C	AI66P	469	0.18	77	23.4	18.5	138	98	6.1	3.4	9.90	68.0
1D	AI70P	374	0.15	57	19.0	11.7	88	88	6.6	4.3	3.80	11.0
1D	AI72P	384	0.22	77	32.2	17.9	116	88	5.0	3.3	9.90	21.9
1D	AI74P	574	0.22	77	29.9	19.8	114	90	7.5	5.0	7.80	18.2
1E	AI78P	519	0.14	67	27.6	23.0	93	88	7.7	5.6	11.70	93.3
1E	AI80P	470	0.13	65	23.2	20.3	90	83	7.2	5.2	10.20	95.2
1E	AI82P	466	0.14	64	26.2	21.4	92	83	7.3	5.1	13.10	89.9
2A	AJ08P	534	0.24	82	38.5	18.7	140	106	6.5	3.8	22.70	93.1
2A	AJ10P	484	0.18	72	27.2	17.6	115	98	6.7	4.2	17.20	90.0
2A	AJ12P	441	0.18	63	19.7	13.1	91	79	7.0	4.8	10.90	91.6
2B	AJ16P	290	0.17	74	25.8	15.9	118	93	3.9	2.5	7.00	4.0
2B	AJ18P	283	0.25	86	36.2	17.4	142	106	3.3	2.0	13.30	93.8
2B	AJ20P	502	0.17	77	28.1	14.3	122	89	6.5	4.1	10.40	5.2
2C	AI54P	576	0.14	80	28.4	18.8	136	100	7.2	4.2	12.20	70.3
2C	AI56P	401	0.18	86	27.3	19.0	145	100	4.7	2.8	9.10	70.5
2C	AI58P	599	0.15	81	28.3	20.8	145	108	7.4	4.1	10.00	72.9
2D	AJ26P	284	0.37	91	38.9	24.4	134	120	3.1	2.1	18.80	82.7
2D	AJ28P	427	0.21	79	28.7	15.4	129	108	5.4	3.3	8.20	15.4
2D	AJ30P	294	0.30	71	25.5	18.2	117	98	4.1	2.5	8.40	2.8
2E	AJ34P	143	0.27	79	30.0	15.2	132	111	1.8	1.1	12.00	80.5
2E	AJ36P	214	0.25	77	29.4	15.6	132	113	2.8	1.6	11.70	90.1
2E	AJ38P	129	0.38	81	30.0	17.1	132	110	1.6	1.0	8.20	82.1
2F	AI34P	232	0.29	78	26.4	9.8	86	77	3.0	2.7	4.80	13.8
2F	AI36P	353	0.24	69	18.6	11.6	92	79	5.1	3.8	5.20	15.4
2F	AI38P	252	0.29	66	16.5	11.4	87	71	3.8	2.9	4.10	10.7
3A	AI22P	452	0.15	69	20.4	17.7	104	85	6.6	4.3	10.90	48.0
3A	AI24P	449	0.14	66	23.2	11.8	111	84	6.8	4.0	11.10	48.1
3A	AI26P	459	0.10	68	24.2	14.2	108	81	6.8	4.3	10.40	45.5
3B	AI14P	382	0.16	68	18.7	11.4	107	81	5.6	3.6	11.00	75.9
3B	AI16P	382	0.15	68	19.2	11.3	100	78	5.6	3.8	11.90	70.6
3B	AI18P	396	0.18	64	19.5	11.1	108	81	6.2	3.7	11.20	76.1
4A	AI06P	276	0.28	81	26.4	14.5	127	108	3.4	2.2	18.20	22.9
4A	AI08P	281	0.23	76	28.2	14.2	128	102	3.7	2.2	12.30	43.5
4A	AI10P	281	0.22	77	27.4	14.6	133	105	3.6	2.1	10.80	35.6
4B	AH97P	361	0.19	62	20.6	10.2	100	77	5.8	3.6	9.00	6.0
4B	AH99P	144	0.21	53	18.3	11.0	99	95	2.7	1.5	4.00	4.8
4B	AI01P	334	0.19	60	18.9	10.5	94	78	5.6	3.6	4.00	5.8
4C	AJ42P	525	0.24	78	23.2	15.9	123	95	6.8	4.3	10.80	9.4
4C	AJ44P	544	0.12	75	24.7	16.7	121	90	7.3	4.5	11.40	8.4
4C	AJ46P	415	0.18	83	23.1	19.4	124	98	5.0	3.3	9.80	3.1
50	AG41P	167	0.25	50	22.4	10.1	98	85	3.3	1.7	3.40	4.0
50	AG43P	284	0.21	54	18.8	9.8	95	77	5.3	3.0	3.80	13.0
50	AG45P	194	0.19	48	17.7	8.5	92	73	4.0	2.1	4.80	2.0

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

YEAR=2 SITETYPE=OCEANIC

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
510	AG17P	128	0.23	58	17.3	9.7	94	77	2.2	1.4	8.70	21.7
510	AG19P	375	0.22	62	20.4	10.4	103	80	6.0	3.6	6.80	18.8
510	AG21P	434	0.19	66	19.5	9.7	96	79	6.6	4.5	5.80	22.9
51	AG33P	159	2.15	72	11.1	10.9	81	57	2.2	2.0	2.40	0.9
51	AG35P	245	0.19	67	19.7	10.2	73	59	3.7	3.4	2.00	1.2
51	AG37P	284	0.18	66	15.7	13.9	100	81	4.3	2.8	3.40	0.9
55	AJ07	445	0.21	74	21.8	11.1	103	86	6.0	4.3	6.40	11.5
55	AJ08	244	0.23	69	21.2	11.6	115	82	3.5	2.1	5.70	36.7
55	AJ09	506	0.20	66	20.5	10.3	102	82	7.7	5.0	2.70	22.4
5A	AG49P	304	0.23	64	18.3	11.4	100	79	4.8	3.0	11.40	43.5
5A	AG51P	477	0.17	63	18.8	10.6	95	78	7.6	5.0	12.70	39.4
5A	AG55P	412	0.20	64	19.6	12.0	105	85	6.4	3.9	10.70	49.9
5B	AG57P	403	0.12	82	27.7	15.6	138	101	4.9	2.9	10.40	55.8
5B	AG59P	420	0.14	82	27.5	18.9	136	104	5.1	3.1	9.80	81.4
5B	AG61P	219	0.14	82	28.1	16.6	149	107	2.7	1.5	10.00	93.7
5D	AG09P	415	0.28	67	19.7	7.4	87	80	6.2	4.8	19.20	85.6
5D	AG11P	108	0.30	58	18.8	8.4	82	80	1.9	1.3	12.40	55.2
5D	AG13P	85	0.29	60	18.5	8.9	94	88	1.4	0.9	12.20	83.9
5E	AG65P	181	0.22	77	29.3	15.8	140	101	2.5	1.3	9.40	44.0
5E	AG67P	415	0.22	83	30.9	18.6	149	101	5.0	2.8	9.40	22.3
5E	AG69P	443	0.18	78	27.3	15.3	138	103	5.7	3.2	10.40	52.8
5F	AH88P	180	0.27	90	11.0	5.4	90	72	2.0	2.0	7.80	44.3
5F	AH89P	44	0.29	57	12.4	6.0	77	72	0.8	0.6	9.00	42.9
5F	AH90P	53	0.22	59	12.7	6.9	81	70	0.9	0.7	6.10	30.3
5G	AI46P	107	0.15	73	18.3	13.1	117	91	1.5	0.9	7.90	8.2
5G	AI48P	475	0.14	87	18.3	13.7	111	78	5.5	4.3	5.90	11.7
5G	AI50P	418	0.18	77	19.3	14.6	109	82	5.4	3.8	6.40	13.8
5H	AJ50P	158	0.22	61	21.0	11.3	110	88	2.6	1.4	6.90	14.0
5H	AJ52P	148	0.22	61	20.7	11.1	110	87	2.4	1.3	30.20	17.9
5H	AJ54P	283	0.23	66	21.0	12.0	106	88	4.3	2.7	11.80	14.0
6A	AG73P	357	0.18	72	21.1	15.2	111	99	5.0	3.2	12.00	90.5
6A	AG75P	391	0.18	73	22.9	14.2	113	99	5.4	3.5	12.30	83.3
6A	AG77P	318	0.19	82	25.6	13.9	119	103	3.9	2.7	15.90	75.0
6B	AG81P	492	0.25	92	33.3	18.8	147	119	5.3	3.3	11.80	78.7
6B	AG83P	504	0.22	88	31.5	14.6	145	117	5.7	3.5	12.50	90.7
6B	AG85P	572	0.20	90	31.8	14.7	136	115	6.4	4.2	23.30	81.6
6C	AG89P	218	0.19	95	33.7	16.9	150	118	2.3	1.4	6.80	20.6
6C	AG91P	514	0.15	79	28.9	15.6	139	108	6.5	3.7	9.80	92.3
6C	AG93P	577	0.19	93	31.3	16.7	157	118	6.2	3.7	8.70	59.3
6D	EF00	298	0.15	82	24.4	12.6	130	92	3.6	2.3	3.30	4.4
6D	EF01	357	0.14	75	21.1	13.3	122	89	4.8	2.9	3.50	2.0
6D	EF02	443	0.15	82	28.3	18.4	149	107	5.4	3.0	6.30	48.4
6F	AH11P	513	0.18	86	21.9	15.2	131	92	6.0	3.9	6.20	43.7
6F	AH18P	156	0.14	90	21.2	13.6	130	93	1.7	1.2	11.20	34.5
6F	AH20P	157	0.14	90	21.7	13.7	122	92	1.7	1.3	5.40	30.7
6G	AH75P	189	0.25	83	18.6	13.7	89	99	2.2	2.1	17.80	80.9
6G	AH77P	123	0.23	60	18.5	10.6	100	87	2.0	1.2	18.70	79.6
6G	AH81P	132	0.23	65	20.6	10.3	111	105	2.0	1.2	18.80	77.0
7A	AH67P	843	0.14	88	18.3	11.3	95	85	9.6	8.9	11.40	72.4
7A	AH69P	745	0.09	87	13.2	10.3	99	88	8.6	7.5	11.50	72.1
7A	AH71P	749	0.10	96	13.5	13.1	97	88	7.8	7.7	8.80	57.8

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

YEAR=2 SITETYPE=OCEANIC

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
7B	AH50P	510	0.18	93	15.8	12.7	98	78	5.5	5.2	5.40	8.9
7B	AH52P	824	0.10	133	13.9	11.6	87	66	6.2	9.5	4.60	10.2
7B	AH54P	.	.	.	.	.	.	.	.	.	.	5.8
7C	AH41P	423	0.17	58	17.1	13.8	102	80	7.3	4.1	11.50	83.1
7C	AH43P	517	0.13	84	20.8	18.0	143	108	6.2	3.6	15.90	97.1
7C	AH45P	528	0.03	81	27.8	18.6	134	99	6.5	3.9	12.30	88.0
7D	AH33P	438	0.15	83	28.2	14.1	122	105	5.3	3.6	9.60	21.6
7D	AH35P	488	0.14	87	31.4	15.1	134	107	5.6	3.6	8.10	63.6
7D	AH37P	533	0.19	79	25.7	13.8	123	98	6.7	4.3	12.00	48.3
7E	AH59P	744	0.10	82	18.0	14.4	103	85	9.1	7.2	20.90	74.5
7E	AH61P	853	0.12	110	21.1	16.0	113	87	7.8	7.5	17.60	53.1
7E	AH63P	757	0.12	91	19.9	12.9	112	89	8.3	6.8	38.70	63.7
7G	AH24P	748	0.22	82	16.1	11.2	88	77	9.1	8.5	18.00	38.6
7G	AH26P	741	0.12	97	13.5	11.9	85	72	7.6	8.7	5.60	32.1
7G	AH28P	686	0.10	92	12.7	8.4	80	67	7.5	8.6	9.80	13.0

YEAR=2 SITETYPE=PEAT

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
1F	AJ08	521	0.24	66	17.6	16.6	103	63	7.9	5.1	95.30	87.1
2G	AI44P	608	0.24	79	29.5	9.5	123	99	7.7	4.9	42.20	58.3
2H	AJ05	491	0.20	61	20.3	11.2	94	74	8.0	5.2	170.4	73.4
3D	AI31P	322	0.25	56	19.5	7.1	67	34	5.8	4.8	228	44.6
5K	AH84P	513	0.30	72	24.0	9.3	107	116	7.1	4.8	93.40	66.2
6J	AH07P	355	0.36	36	11.9	2.4	33	23	9.9	10.8	261.1	69.1
7H	AH32	394	0.40	87	39.1	17.2	134	105	4.5	2.9	22.90	8.0
7J	AH79P	383	0.21	64	21.6	9.7	76	78	6.0	5.0	294.6	80.5

YEAR=2 SITETYPE=RIVER

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
5J	AG07P	191	0.40	56	19.4	7.1	84	91	3.4	2.3	12.80	15.5
6H	AH08P	953	0.27	101	24.0	13.1	117	106	9.4	8.1	65.50	15.4

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

------------------------------ YEAR=3 SITETYPE=OCEANIC ------------------------------

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
1A	FB25P	308	0.15	91	27.5	13.4	129	130	3.4	2.4	9.00	83.6
1A	FB27P	341	0.19	95	32.0	14.6	136	233	3.6	2.5	8.70	84.0
1A	FB29P	209	0.17	107	28.5	12.8	133	129	2.0	1.6	6.60	54.1
1B	FB33P	181	0.14	84	21.6	14.5	129	84	2.2	1.4	23.00	7.4
1B	FB35P	266	0.11	88	23.8	18.0	130	90	3.0	2.0	3.10	8.4
1B	FB37P	249	0.11	87	29.6	19.4	153	88	2.9	1.6	7.40	28.4
1C	FB49P	353	0.08	93	25.3	19.7	148	91	3.8	2.4	7.70	66.6
1C	FB51P	310	0.08	85	22.7	17.2	136	88	3.7	2.3	9.00	82.7
1C	FB53P	277	0.06	85	23.2	19.4	140	90	3.3	2.0	8.40	79.8
1D	FB09P	525	0.12	84	26.5	26.0	95	89	6.3	5.5	4.60	30.3
1D	FB11P	514	0.14	80	25.1	25.4	91	90	6.5	5.7	6.50	49.8
1D	FB13P	493	0.12	79	25.3	23.5	93	79	6.2	5.3	4.60	28.9
1E	FB17P	330	0.14	67	19.7	12.3	75	68	4.9	4.4	3.60	31.4
1E	FB19P	340	0.12	68	19.4	11.1	76	57	5.0	4.5	4.00	29.6
1E	FB21P	351	0.08	68	17.9	15.2	73	70	5.2	4.8	3.90	20.0
2A	FB41P	328	0.22	96	25.2	14.5	117	78	3.4	2.8	11.30	82.9
2A	FB43P	292	0.18	90	22.3	12.3	107	72	3.3	2.7	11.40	78.9
2A	FB45P	340	0.19	95	25.5	17.1	119	80	3.6	2.9	10.40	80.4
2B	FB65P	319	0.19	88	27.9	16.8	134	92	3.6	2.4	5.60	23.2
2B	FB67P	232	0.17	75	20.6	12.3	111	81	3.1	2.1	2.00	8.9
2B	FB69P	243	0.18	68	17.7	9.6	82	76	3.6	3.0	2.00	4.6
2C	FB57P	274	0.08	81	21.5	12.1	125	113	3.4	2.2	7.60	52.7
2C	FB59P	283	0.11	88	25.0	20.2	141	104	3.2	2.0	7.00	57.5
2C	FB61P	305	0.11	89	23.1	17.3	137	89	3.4	2.2	7.40	61.6
2D	FB73P	334	0.22	85	31.0	17.0	125	109	3.9	2.7	6.40	14.5
2D	FB75P	324	0.48	89	28.4	14.2	126	92	3.6	2.6	5.40	17.9
2D	FB77P	350	0.16	83	17.9	10.3	92	77	4.2	3.8	4.80	30.6
2E	FD90P	400	0.22	74	18.7	12.2	107	77	5.4	3.7	3.60	23.9
2E	FD92P	416	0.25	74	18.2	12.9	105	82	5.6	4.0	4.80	30.5
2E	FD94P	372	0.25	77	41.0	11.6	115	91	4.8	3.2	7.50	47.0
2F	FB01P	24	0.08	105	12.2	5.0	75	67	0.2	0.3	3.50	9.9
2F	FB03P	39	0.05	92	12.1	7.6	76	66	0.4	0.5	3.30	12.5
2F	FB05P	38	0.06	112	12.7	8.1	75	85	0.3	0.5	2.50	9.8
3A	FE13P	397	0.19	76	19.6	12.8	114	78	5.2	3.5	8.40	17.8
3A	FE15P	328	0.19	80	19.5	10.8	107	102	4.1	3.0	6.20	38.3
3A	FE17P	377	0.18	75	17.7	10.3	106	73	5.0	3.6	7.00	34.7
3B	FD98P	413	0.17	77	18.3	11.6	112	81	5.4	3.7	9.00	83.4
3B	FE07P	348	0.20	83	21.6	11.1	118	75	4.2	2.9	10.30	66.3
3B	FE09P	345	0.18	81	22.3	11.1	121	105	4.2	2.9	12.00	75.5
4A	FE29P	404	0.41	88	28.9	12.1	137	127	4.6	2.9	6.30	72.3
4A	FE31P	394	0.36	84	28.2	8.1	130	105	4.7	3.0	5.70	31.7
4A	FE33P	360	0.28	79	20.2	11.6	112	84	4.6	3.2	3.40	9.4
4B	FE21P	329	0.19	74	20.0	6.9	108	77	4.5	3.0	2.50	6.1
4B	FE23P	332	0.17	74	18.8	8.1	105	87	4.5	3.2	3.20	14.5
4B	FE25P	381	0.22	76	19.1	11.5	113	119	5.0	3.4	3.30	16.6
4C	FE45P	277	0.14	78	21.5	6.8	126	83	3.5	2.2	6.60	16.4
4C	FE47P	305	0.16	82	20.3	6.2	118	81	3.7	2.6	2.90	13.7
4C	FE49P	318	0.18	85	20.7	7.4	123	84	3.8	2.6	3.20	13.2
50	FE61P	246	0.27	68	17.8	7.6	91	97	3.6	2.7	2.00	3.9
50	FE63P	317	0.29	78	20.4	9.9	109	93	4.1	2.9	4.30	22.1
50	FE65P	270	0.31	72	21.0	9.2	106	87	3.8	2.5	2.90	9.0

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

-- YEAR=3 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
510	FD66P	360	0.14	72	14.2	9.2	88	61	5.0	4.1	3.90	14.5
510	FD68P	453	0.16	74	18.1	10.7	104	73	6.1	4.4	5.70	17.5
510	FD70P	378	0.18	77	17.8	8.5	104	83	4.9	3.6	6.20	17.0
51	FE63P	282	0.25	71	19.1	7.4	98	72	4.0	2.9	1.80	4.3
51	FE65P	278	0.28	67	13.8	6.7	87	88	4.2	3.2	1.90	3.8
51	FE67	.	.	.	.	.	.	.	.	.	17.00	4.2
55	FD62P	338	0.22	82	18.7	9.8	109	88	4.1	3.1	4.80	14.8
55	FD64P	333	0.18	82	19.4	11.7	111	74	4.1	3.0	4.30	9.8
55	FD66P	331	0.15	78	19.2	11.0	111	71	4.3	3.0	4.30	13.2
5A	FD50P	398	0.16	83	20.0	9.8	113	73	4.8	3.5	7.30	45.7
5A	FD52P	410	0.17	81	19.4	10.4	114	84	5.0	3.6	5.70	45.3
5A	FD54P	405	0.22	78	20.0	10.9	109	74	5.2	3.7	8.60	76.2
5B	FC62P	283	0.17	84	24.5	12.8	138	81	3.4	2.1	6.60	73.3
5B	FC64P	328	0.12	90	27.0	13.4	149	108	3.6	2.2	8.60	77.5
5B	FC66P	378	0.16	108	30.1	9.9	158	170	3.5	2.4	5.80	14.7
5D	FE69P	298	0.16	85	16.0	6.0	93	78	3.5	3.2	8.90	88.3
5D	FE71P	323	0.19	81	15.1	7.9	91	77	4.0	3.6	14.30	74.6
5D	FE73P	308	0.19	87	15.9	3.8	92	71	3.5	3.4	20.00	64.3
5E	FC64P	292	0.16	91	28.1	12.9	151	112	3.2	1.9	9.70	43.7
5E	FC66P	312	0.16	90	27.4	12.9	148	90	3.5	2.1	12.20	40.1
5E	FC68P	293	0.14	92	27.0	12.3	149	89	3.2	2.0	7.10	29.6
5F	FD58P	354	0.19	79	16.0	9.7	97	84	4.5	3.7	12.30	85.6
5F	FD60P	335	0.25	81	15.7	9.2	96	92	4.2	3.5	11.30	84.4
5F	FD62P	276	0.15	74	15.7	8.6	90	93	3.7	3.1	13.30	82.7
5G	FD76P	307	0.14	91	19.3	9.3	119	88	3.4	2.6	4.90	19.7
5G	FD78P	274	0.15	88	18.9	12.1	122	78	3.1	2.2	4.70	17.4
5G	FD80P	313	0.17	83	17.3	8.9	112	97	3.8	2.8	3.90	28.7
5H	FE37P	362	0.25	78	21.6	6.3	114	79	4.6	3.2	10.30	27.8
5H	FE39P	348	0.19	75	19.4	9.7	99	88	4.6	3.5	5.20	17.8
5H	FE41P	359	0.19	76	18.5	12.8	110	81	4.8	3.3	4.70	19.8
6A	FC76P	277	0.22	91	19.5	9.7	105	106	3.0	2.6	10.70	74.3
6A	FC78P	334	0.14	99	19.9	10.4	112	73	3.4	3.0	9.80	69.3
6A	FC80P	389	0.30	90	19.9	9.7	108	88	4.3	3.6	8.70	75.3
6B	FC52P	455	0.24	109	37.0	14.2	159	129	4.2	2.9	18.70	75.3
6B	FC54P	527	0.22	109	37.1	14.8	161	112	4.8	3.3	17.10	82.2
6B	FC56P	432	0.19	109	36.7	13.6	134	137	4.0	3.2	17.00	82.5
6C	FC68P	273	0.10	96	25.5	14.4	156	127	2.9	1.8	9.90	42.3
6C	FC70P	263	0.14	99	28.9	14.6	154	94	2.7	1.7	6.90	25.2
6C	FC72P	195	0.11	98	27.9	15.1	153	93	2.0	1.3	8.10	33.6
6D	FC80P	341	0.07	104	28.1	14.8	156	101	3.3	2.2	5.40	45.7
6D	FC82P	284	0.07	93	25.6	14.1	148	90	3.1	1.9	8.00	37.7
6D	FC84P	300	0.12	99	26.0	12.9	153	112	3.0	2.0	5.10	25.5
6F	FC36P	337	0.15	97	27.9	14.2	143	99	3.5	2.4	13.40	88.8
6F	FC38P	268	0.14	109	28.8	14.0	155	94	2.5	1.7	8.50	65.2
6F	FC40P	312	0.14	133	26.7	14.5	149	88	2.3	2.1	4.80	20.0
6G	FC44P	298	0.15	97	17.5	7.4	101	79	3.1	3.0	10.80	79.5
6G	FC46P	295	0.16	100	17.1	8.0	99	89	2.9	3.0	9.20	71.5
6G	FC48P	278	0.14	95	15.6	6.2	94	72	2.9	2.9	.	74.1
7A	FC28P	653	0.09	159	21.2	8.3	118	82	4.1	5.5	7.30	64.1
7A	FC30P	573	0.08	149	25.8	11.0	128	93	3.8	4.5	7.60	47.1
7A	FC32P	655	0.13	129	29.0	12.2	132	107	5.1	5.0	14.10	50.6

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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR METAL CONCENTRATIONS AND ANCILLARY VARIABLES

TYPE OF SEDIMENT = FINE

-- YEAR=3 SITETYPE=OCEANIC --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
7B	FC04P	388	0.08	176	24.3	10.8	133	94	2.2	2.9	5.00	19.1
7B	FC06P	278	0.08	157	27.6	11.1	141	114	1.8	2.0	5.30	20.2
7B	FC08P	318	0.08	150	28.3	11.2	140	104	2.1	2.3	5.90	13.2
7C	FB85P	275	0.14	99	27.1	12.3	150	107	2.8	1.8	5.70	88.0
7C	FB87P	271	0.17	97	28.6	12.8	155	118	2.8	1.7	5.80	84.3
7C	FB89P	313	0.14	95	28.8	12.9	141	100	3.3	2.2	12.20	89.3
7D	FB87P	374	0.10	144	18.1	5.8	103	88	2.6	3.6	2.80	7.1
7D	FB89P	304	0.13	107	27.1	12.2	139	87	2.8	2.2	6.20	42.0
7D	FB91P	426	0.10	135	19.0	8.7	101	78	3.2	4.2	4.40	12.8
7E	FC12P	585	0.08	193	19.7	7.4	115	374	3.0	5.1	10.80	77.8
7E	FC14P	268	0.11	107	28.3	12.0	150	91	2.5	1.8	12.90	73.5
7E	FC16P	448	0.14	136	24.3	11.5	125	88	3.3	3.6	15.70	61.3
7G	FC20P	541	0.12	182	20.5	10.2	132	99	3.0	4.1	10.80	38.0
7G	FC22P	684	0.12	223	21.5	8.6	117	88	3.1	5.8	9.80	54.4
7G	FC24P	681	0.10	175	18.9	9.7	106	90	3.8	6.4	11.30	54.3

-- YEAR=3 SITETYPE=RIVER --

STATION	SAMPLE	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V	TOC	% MUD
2J1	FE04	65	0.24	72	23.6	4.9	93	108	0.9	0.7	42.00	15.2
2J2	FE05	60	0.21	70	20.1	6.7	88	78	0.9	0.7	40.00	11.8
5L1	FB81	7	0.33	65	18.6	8.6	74	148	0.1	0.1	183	32.9
5L2	FB82	258	0.38	79	19.8	12.3	84	88	3.3	3.0	242	77.0
5L3	FB83	258	0.19	82	15.3	10.9	81	88	3.1	3.2	120	80.1
5M1	FB84	490	0.36	91	21.9	9.2	91	92	5.4	5.4	47.00	8.6
5M2	FB85	509	0.33	111	20.9	10.0	97	113	4.6	5.3	55.00	12.3
5M3	FB86	490	0.30	126	18.3	6.9	98	101	3.9	5.0	26.00	5.3
6K1	FE01	875	0.20	156	27.6	12.7	88	90	5.6	9.9	68.00	29.4
6K2	FE02	845	0.14	171	20.1	8.1	109	108	4.9	7.8	189	47.8
6K3	FE03	841	0.22	178	24.8	8.6	119	92	4.7	7.1	45.00	25.0

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                 BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                          RAW DATA LISTING FOR RATIO VARIABLES

                                  TYPE OF SEDIMENT = FINE

-------------------------------------- YEAR=1 SITETYPE=OCEANIC --------------------------------------

      STATION   SAMPLE   FFPI   ISO/ALK   LALK/TALK   PRIS/PHYT   H/P   P/D   PAH/TOC   TOT/TOC

        2E       100      .        .          .           .        .     .       .         .
        2E       100      .        .          .           .        .     .       .         .
        2E       100      .        .          .           .        .     .       .         .
        2E       100      .        .          .           .        .     .       .         .
        2E       100      .        .          .           .        .     .       .         .
        2E       100      .        .          .           .        .     .       .         .
        2F       100      .        .          .           .        .     .       .         .
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        2F       100      .        .          .           .        .     .       .         .
        2F       100      .        .          .           .        .     .       .         .
        2F       100      .        .          .           .        .     .       .         .
        3A       100      .        .          .           .        .     .       .         .
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        4C       100      .        .          .           .        .     .       .         .
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        4C       100      .        .          .           .        .     .       .         .
        S10      100      .        .          .           .        .     .       .         .
        S10      100      .        .          .           .        .     .       .         .
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        S10      100      .        .          .           .        .     .       .         .
        S1       100      .        .          .           .        .     .       .         .
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        BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                 RAW DATA LISTING FOR RATIO VARIABLES

                     TYPE OF SEDIMENT = FINE

---------------------------------- YEAR=1 SITETYPE=OCEANIC ----------------------------------

STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

  S1        100       .         .           .            .         .      .        .          .
  S1        100       .         .           .            .         .      .        .          .
  S1        100       .         .           .            .         .      .        .          .
  S1        100       .         .           .            .         .      .        .          .
  S2        100       .         .           .            .         .      .        .          .
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  S6        100       .         .           .            .         .      .        .          .
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  SD        100       .         .           .            .         .      .        .          .
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  SE        100       .         .           .            .         .      .        .          .
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                    BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                            RAW DATA LISTING FOR RATIO VARIABLES

                                  TYPE OF SEDIMENT = FINE

----------------------------------------------- YEAR=1 SITETYPE=OCEANIC -----------------------------------------------

        STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

          5G        100        .        .           .            .         .      .        .          .
          5G        100        .        .           .            .         .      .        .          .
          6A        100        .        .           .            .         .      .        .          .
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          6B        100        .        .           .            .         .      .        .          .
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          6C        100        .        .           .            .         .      .        .          .
          6D        100        .        .           .            .         .      .        .          .
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          6D        100        .        .           .            .         .      .        .          .
          6F        100        .        .           .            .         .      .        .          .
          6F        100        .        .           .            .         .      .        .          .
          6F        100        .        .           .            .         .      .        .          .
          6F        100        .        .           .            .         .      .        .          .
          6F        100        .        .           .            .         .      .        .          .
          6F        100        .        .           .            .         .      .        .          .
          7A        100        .        .           .            .         .      .        .          .
          7A        100        .        .           .            .         .      .        .          .
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          7A        100        .        .           .            .         .      .        .          .
          7B        100        .        .           .            .         .      .        .          .
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          7E        100        .        .           .            .         .      .        .          .
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                 BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                         RAW DATA LISTING FOR RATIO VARIABLES

                               TYPE OF SEDIMENT = FINE

------------------------------------------------ YEAR=1 SITETYPE=OCEANIC ------------------------------------------------

  STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

    7E        100        .        .           .            .         .      .        .          .
    7E        100        .        .           .            .         .      .        .          .
    7E        100        .        .           .            .         .      .        .          .
    7E        100        .        .           .            .         .      .        .          .
    7E        100        .        .           .            .         .      .        .          .
    7G        100        .        .           .            .         .      .        .          .
    7G        100        .        .           .            .         .      .        .          .
    7G        100        .        .           .            .         .      .        .          .
    7G        100        .        .           .            .         .      .        .          .
    7G        100        .        .           .            .         .      .        .          .
    7G        100        .        .           .            .         .      .        .          .
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                        BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                                  RAW DATA LISTING FOR RATIO VARIABLES

                                        TYPE OF SEDIMENT = FINE

----------------------------------------- YEAR=2 SITETYPE=OCEANIC -----------------------------------------

STATION   SAMPLE   FFPI   ISO/ALK   LALK/TALK   PRIS/PHYT   N/P   P/D   PAH/TOC   TOT/TOC

  1A      AJ04      59     0.397      0.082        1.8      1.1   5.4    0.023      2.2
  1A      AJ05      62     0.408      0.105        1.6      1.1   6.0    0.021      2.0
  1A      AJ06      62     0.438      0.084        1.3      1.1   5.8    0.018      2.7
  1B      AI95P      .       .          .           .        .     .       .         .
  1B      AI97P      .       .          .           .        .     .       .         .
  1B      AI99P      .       .          .           .        .     .       .         .
  1C      AI62P      .       .          .           .        .     .       .         .
  1C      AI64P      .       .          .           .        .     .       .         .
  1C      AI66P      .       .          .           .        .     .       .         .
  1D      AI70P      .       .          .           .        .     .       .         .
  1D      AI72P      .       .          .           .        .     .       .         .
  1D      AI74P      .       .          .           .        .     .       .         .
  1E      AI78P      .       .          .           .        .     .       .         .
  1E      AI80P      .       .          .           .        .     .       .         .
  1E      AI82P      .       .          .           .        .     .       .         .
  2A      AJ08P      .       .          .           .        .     .       .         .
  2A      AJ10P      .       .          .           .        .     .       .         .
  2A      AJ12P      .       .          .           .        .     .       .         .
  2B      AJ16P      .       .          .           .        .     .       .         .
  2B      AJ18P      .       .          .           .        .     .       .         .
  2B      AJ20P      .       .          .           .        .     .       .         .
  2C      AI54P      .       .          .           .        .     .       .         .
  2C      AI56P      .       .          .           .        .     .       .         .
  2C      AI58P      .       .          .           .        .     .       .         .
  2D      AJ26P      .       .          .           .        .     .       .         .
  2D      AJ28P      .       .          .           .        .     .       .         .
  2D      AJ30P      .       .          .           .        .     .       .         .
  2E      AJ34P      .       .          .           .        .     .       .         .
  2E      AJ36P      .       .          .           .        .     .       .         .
  2E      AJ38P      .       .          .           .        .     .       .         .
  2F      AI34P      .       .          .           .        .     .       .         .
  2F      AI36P      .       .          .           .        .     .       .         .
  2F      AI38P      .       .          .           .        .     .       .         .
  3A      AI22P      .       .          .           .        .     .       .         .
  3A      AI24P      .       .          .           .        .     .       .         .
  3A      AI26P      .       .          .           .        .     .       .         .
  3B      AI14P      .       .          .           .        .     .       .         .
  3B      AI16P      .       .          .           .        .     .       .         .
  3B      AI18P      .       .          .           .        .     .       .         .
  4A      AI06P      .       .          .           .        .     .       .         .
  4A      AI08P      .       .          .           .        .     .       .         .
  4A      AI10P      .       .          .           .        .     .       .         .
  4B      AH97P      .       .          .           .        .     .       .         .
  4B      AH99P      .       .          .           .        .     .       .         .
  4B      AI01P      .       .          .           .        .     .       .         .
  4C      AJ42P      .       .          .           .        .     .       .         .
  4C      AJ44P      .       .          .           .        .     .       .         .
  4C      AJ46P      .       .          .           .        .     .       .         .
  5O      AG41P      .       .          .           .        .     .       .         .
  5O      AG43P      .       .          .           .        .     .       .         .
  5O      AG45P      .       .          .           .        .     .       .         .
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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR RATIO VARIABLES

TYPE OF SEDIMENT = FINE

-- YEAR=2 SITETYPE=OCEANIC --

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
510	AG17P	.	.	.	.	.	.	.	.
510	AG19P	.	.	.	.	.	.	.	.
510	AG21P	.	.	.	.	.	.	.	.
51	AG33P	.	.	.	.	.	.	.	.
51	AG35P	.	.	.	.	.	.	.	.
51	AG37P	.	.	.	.	.	.	.	.
55	AJ07	67	0.388	0.178	2.1	1.4	7.5	0.052	3.9
55	AJ08	74	0.420	0.173	1.8	1.3	8.0	0.053	3.1
55	AJ09	64	0.388	0.197	2.1	1.2	11.4	0.122	7.7
5A	AG49P	.	.	.	.	.	.	.	.
5A	AG51P	.	.	.	.	.	.	.	.
5A	AG53P	.	.	.	.	.	.	.	.
5B	AG57P	.	.	.	.	.	.	.	.
5B	AG59P	.	.	.	.	.	.	.	.
5B	AG61P	.	.	.	.	.	.	.	.
5D	AG09P	.	.	.	.	.	.	.	.
5D	AG11P	.	.	.	.	.	.	.	.
5D	AG13P	.	.	.	.	.	.	.	.
5E	AG65P	.	.	.	.	.	.	.	.
5E	AG67P	.	.	.	.	.	.	.	.
5E	AG69P	.	.	.	.	.	.	.	.
5F	AH86P	.	.	.	.	.	.	.	.
5F	AH88P	.	.	.	.	.	.	.	.
5F	AH90P	.	.	.	.	.	.	.	.
5G	AI46P	.	.	.	.	.	.	.	.
5G	AI48P	.	.	.	.	.	.	.	.
5G	AI50P	.	.	.	.	.	.	.	.
5H	AJ50P	.	.	.	.	.	.	.	.
5H	AJ52P	.	.	.	.	.	.	.	.
5H	AJ54P	.	.	.	.	.	.	.	.
6A	AG73P	.	.	.	.	.	.	.	.
6A	AG75P	.	.	.	.	.	.	.	.
6A	AG77P	.	.	.	.	.	.	.	.
6B	AG81P	.	.	.	.	.	.	.	.
6B	AG83P	.	.	.	.	.	.	.	.
6B	AG85P	.	.	.	.	.	.	.	.
6C	AG89P	.	.	.	.	.	.	.	.
6C	AG91P	.	.	.	.	.	.	.	.
6C	AG93P	.	.	.	.	.	.	.	.
6D	EF00	72	0.430	0.220	2.1	1.4	8.8	0.169	9.3
6D	EF01	65	0.438	0.214	2.0	1.5	9.0	0.170	8.8
6D	EF02	72	0.480	0.182	1.5	1.3	5.0	0.107	7.2
6F	AH11P	.	.	.	.	.	.	.	.
6F	AH18P	.	.	.	.	.	.	.	.
6F	AH20P	.	.	.	.	.	.	.	.
6G	AH75P	.	.	.	.	.	.	.	.
6G	AH77P	.	.	.	.	.	.	.	.
6G	AH81P	.	.	.	.	.	.	.	.
7A	AH67P	.	.	.	.	.	.	.	.
7A	AH69P	.	.	.	.	.	.	.	.
7A	AH71P	.	.	.	.	.	.	.	.

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                 BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                          RAW DATA LISTING FOR RATIO VARIABLES

                                TYPE OF SEDIMENT = FINE

---------------------------------------- YEAR=2 SITETYPE=OCEANIC ----------------------------------------

   STATION   SAMPLE   FFPI   ISO/ALK   LALK/TALK   PRIS/PHYT   N/P   P/D   PAH/TOC   TOT/TOC

     7B      AH50P     .        .          .           .        .     .       .         .
     7B      AH52P     .        .          .           .        .     .       .         .
     7B      AH54P     .        .          .           .        .     .       .         .
     7C      AH41P     .        .          .           .        .     .       .         .
     7C      AH43P     .        .          .           .        .     .       .         .
     7C      AH45P     .        .          .           .        .     .       .         .
     7D      AH33P     .        .          .           .        .     .       .         .
     7D      AH35P     .        .          .           .        .     .       .         .
     7D      AH37P     .        .          .           .        .     .       .         .
     7E      AH58P     .        .          .           .        .     .       .         .
     7E      AH51P     .        .          .           .        .     .       .         .
     7E      AH53P     .        .          .           .        .     .       .         .
     7G      AH24P     .        .          .           .        .     .       .         .
     7G      AH26P     .        .          .           .        .     .       .         .
     7G      AH28P     .        .          .           .        .     .       .         .

---------------------------------------- YEAR=2 SITETYPE=PEAT ----------------------------------------

   STATION   SAMPLE   FFPI   ISO/ALK   LALK/TALK   PRIS/PHYT   N/P   P/D   PAH/TOC   TOT/TOC

     1F      AJ08      .        .          .           .        .     .       .         .
     2G      AI44P     .        .          .           .        .     .       .         .
     2H      AJ06      .        .          .           .        .     .       .         .
     3D      AI31P     .        .          .           .        .     .       .         .
     6K      AH04P     .        .          .           .        .     .       .         .
     6J      AH07P     .        .          .           .        .     .       .         .
     7H      AH32      .        .          .           .        .     .       .         .
     7J      AH78P     .        .          .           .        .     .       .         .

---------------------------------------- YEAR=2 SITETYPE=RIVER ----------------------------------------

   STATION   SAMPLE   FFPI   ISO/ALK   LALK/TALK   PRIS/PHYT   N/P   P/D   PAH/TOC   TOT/TOC

     8J      AG07P     .        .          .           .        .     .       .         .
     6H      AH08P     .        .          .           .        .     .       .         .
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                BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                       RAW DATA LISTING FOR RATIO VARIABLES

                            TYPE OF SEDIMENT = FINE

------------------------------------------------------------ YEAR=3 SITETYPE=OCEANIC ------------------------------------------------------------

      STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

        1A       FB25P      .         .           .            .         .      .        .          .
        1A       FB27P      .         .           .            .         .      .        .          .
        1A       FB29P      .         .           .            .         .      .        .          .
        1B       FB33P      .         .           .            .         .      .        .          .
        1B       FB35P      .         .           .            .         .      .        .          .
        1B       FB37P      .         .           .            .         .      .        .          .
        1C       FB49P      .         .           .            .         .      .        .          .
        1C       FB51P      .         .           .            .         .      .        .          .
        1C       FB53P      .         .           .            .         .      .        .          .
        1D       FB09P      .         .           .            .         .      .        .          .
        1D       FB11P      .         .           .            .         .      .        .          .
        1D       FB13P      .         .           .            .         .      .        .          .
        1E       FB17P      .         .           .            .         .      .        .          .
        1E       FB19P      .         .           .            .         .      .        .          .
        1E       FB21P      .         .           .            .         .      .        .          .
        2A       FB41P      .         .           .            .         .      .        .          .
        2A       FB43P      .         .           .            .         .      .        .          .
        2A       FB45P      .         .           .            .         .      .        .          .
        2B       FB65P      .         .           .            .         .      .        .          .
        2B       FB67P      .         .           .            .         .      .        .          .
        2B       FB69P      .         .           .            .         .      .        .          .
        2C       FB57P      .         .           .            .         .      .        .          .
        2C       FB59P      .         .           .            .         .      .        .          .
        2C       FB61P      .         .           .            .         .      .        .          .
        2D       FB73P      .         .           .            .         .      .        .          .
        2D       FB75P      .         .           .            .         .      .        .          .
        2D       FB77P      .         .           .            .         .      .        .          .
        2E       FD90P      .         .           .            .         .      .        .          .
        2E       FD92P      .         .           .            .         .      .        .          .
        2E       FD94P      .         .           .            .         .      .        .          .
        2F       FB01P      .         .           .            .         .      .        .          .
        2F       FB03P      .         .           .            .         .      .        .          .
        2F       FB05P      .         .           .            .         .      .        .          .
        3A       FE13P      .         .           .            .         .      .        .          .
        3A       FE15P      .         .           .            .         .      .        .          .
        3A       FE17P      .         .           .            .         .      .        .          .
        3B       FD98P      .         .           .            .         .      .        .          .
        3B       FE07P      .         .           .            .         .      .        .          .
        3B       FE09P      .         .           .            .         .      .        .          .
        4A       FE29P      .         .           .            .         .      .        .          .
        4A       FE31P      .         .           .            .         .      .        .          .
        4A       FE33P      .         .           .            .         .      .        .          .
        4B       FE21P      .         .           .            .         .      .        .          .
        4B       FE23P      .         .           .            .         .      .        .          .
        4B       FE25P      .         .           .            .         .      .        .          .
        4C       FE45P      .         .           .            .         .      .        .          .
        4C       FE47P      .         .           .            .         .      .        .          .
        4C       FE49P      .         .           .            .         .      .        .          .
        5O       FE61P      .         .           .            .         .      .        .          .
        5O       FE63P      .         .           .            .         .      .        .          .
        5O       FE65P      .         .           .            .         .      .        .          .
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BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
RAW DATA LISTING FOR RATIO VARIABLES

TYPE OF SEDIMENT = FINE

-- YEAR=3 SITETYPE=OCEANIC --

STATION	SAMPLE	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D	PAH/TOC	TOT/TOC
510	FD86P	.	.	.	.	.	.	.	.
510	FD88P	.	.	.	.	.	.	.	.
510	FD70P	.	.	.	.	.	.	.	.
51	FE83P	.	.	.	.	.	.	.	.
51	FE85P	.	.	.	.	.	.	.	.
51	FE87	.	.	.	.	.	.	.	.
55	FD82P	.	.	.	.	.	.	.	.
55	FD84P	.	.	.	.	.	.	.	.
56	FD86P	.	.	.	.	.	.	.	.
5A	FD80P	.	.	.	.	.	.	.	.
5A	FD82P	.	.	.	.	.	.	.	.
5A	FD84P	.	.	.	.	.	.	.	.
5B	FC92P	.	.	.	.	.	.	.	.
5B	FC94P	.	.	.	.	.	.	.	.
5B	FC96P	.	.	.	.	.	.	.	.
5D	FE69P	.	.	.	.	.	.	.	.
5D	FE71P	.	.	.	.	.	.	.	.
5D	FE75P	.	.	.	.	.	.	.	.
5E	FC84P	.	.	.	.	.	.	.	.
5E	FC86P	.	.	.	.	.	.	.	.
5E	FC88P	.	.	.	.	.	.	.	.
5F	FD88P	.	.	.	.	.	.	.	.
5F	FD80P	.	.	.	.	.	.	.	.
5F	FD82P	.	.	.	.	.	.	.	.
5G	FD79P	.	.	.	.	.	.	.	.
5G	FD78P	.	.	.	.	.	.	.	.
5G	FD80P	.	.	.	.	.	.	.	.
5H	FE37P	.	.	.	.	.	.	.	.
5H	FE39P	.	.	.	.	.	.	.	.
5H	FE41P	.	.	.	.	.	.	.	.
6A	FC76P	.	.	.	.	.	.	.	.
6A	FC78P	.	.	.	.	.	.	.	.
6A	FC80P	.	.	.	.	.	.	.	.
6B	FC82P	.	.	.	.	.	.	.	.
6B	FC84P	.	.	.	.	.	.	.	.
6B	FC86P	.	.	.	.	.	.	.	.
6C	FC68P	.	.	.	.	.	.	.	.
6C	FC70P	.	.	.	.	.	.	.	.
6C	FC72P	.	.	.	.	.	.	.	.
6D	FC80P	.	.	.	.	.	.	.	.
6D	FC82P	.	.	.	.	.	.	.	.
6D	FC84P	.	.	.	.	.	.	.	.
6F	FC36P	.	.	.	.	.	.	.	.
6F	FC38P	.	.	.	.	.	.	.	.
6F	FC40P	.	.	.	.	.	.	.	.
6G	FC44P	.	.	.	.	.	.	.	.
6G	FC46P	.	.	.	.	.	.	.	.
6G	FC48P	.	.	.	.	.	.	.	.
7A	FC28P	.	.	.	.	.	.	.	.
7A	FC30P	.	.	.	.	.	.	.	.
7A	FC32P	.	.	.	.	.	.	.	.

0282

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                 BEAUFORT SEA MONITORING PROGRAM-- FINE SEDIMENT SAMPLE DATA
                          RAW DATA LISTING FOR RATIO VARIABLES

                                TYPE OF SEDIMENT = FINE

------------------------------------------------------- YEAR=3 SITETYPE=OCEANIC ------------------------------------------------------

     STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

       7B       FC04P      .         .           .            .         .      .        .          .
       7B       FC06P      .         .           .            .         .      .        .          .
       7B       FC08P      .         .           .            .         .      .        .          .
       7C       FB95P      .         .           .            .         .      .        .          .
       7C       FB97P      .         .           .            .         .      .        .          .
       7C       FB99P      .         .           .            .         .      .        .          .
       7D       FB87P      .         .           .            .         .      .        .          .
       7D       FB89P      .         .           .            .         .      .        .          .
       7D       FB91P      .         .           .            .         .      .        .          .
       7E       FC12P      .         .           .            .         .      .        .          .
       7E       FC14P      .         .           .            .         .      .        .          .
       7E       FC16P      .         .           .            .         .      .        .          .
       7G       FC20P      .         .           .            .         .      .        .          .
       7G       FC22P      .         .           .            .         .      .        .          .
       7G       FC24P      .         .           .            .         .      .        .          .

------------------------------------------------------- YEAR=3 SITETYPE=RIVER --------------------------------------------------------

     STATION    SAMPLE    FFPI    ISO/ALK    LALK/TALK    PRIS/PHYT    N/P    P/D    PAH/TOC    TOT/TOC

       2J1       FE04      .         .           .            .         .      .        .          .
       2J2       FE06      .         .           .            .         .      .        .          .
       6L1       FB81      .         .           .            .         .      .        .          .
       6L2       FB82      .         .           .            .         .      .        .          .
       6L3       FB83      .         .           .            .         .      .        .          .
       5N1       FB84      .         .           .            .         .      .        .          .
       5N2       FB85      .         .           .            .         .      .        .          .
       5N3       FB86      .         .           .            .         .      .        .          .
       6K1       FE01      .         .           .            .         .      .        .          .
       6K2       FE02      .         .           .            .         .      .        .          .
       6K3       FE03      .         .           .            .         .      .        .          .
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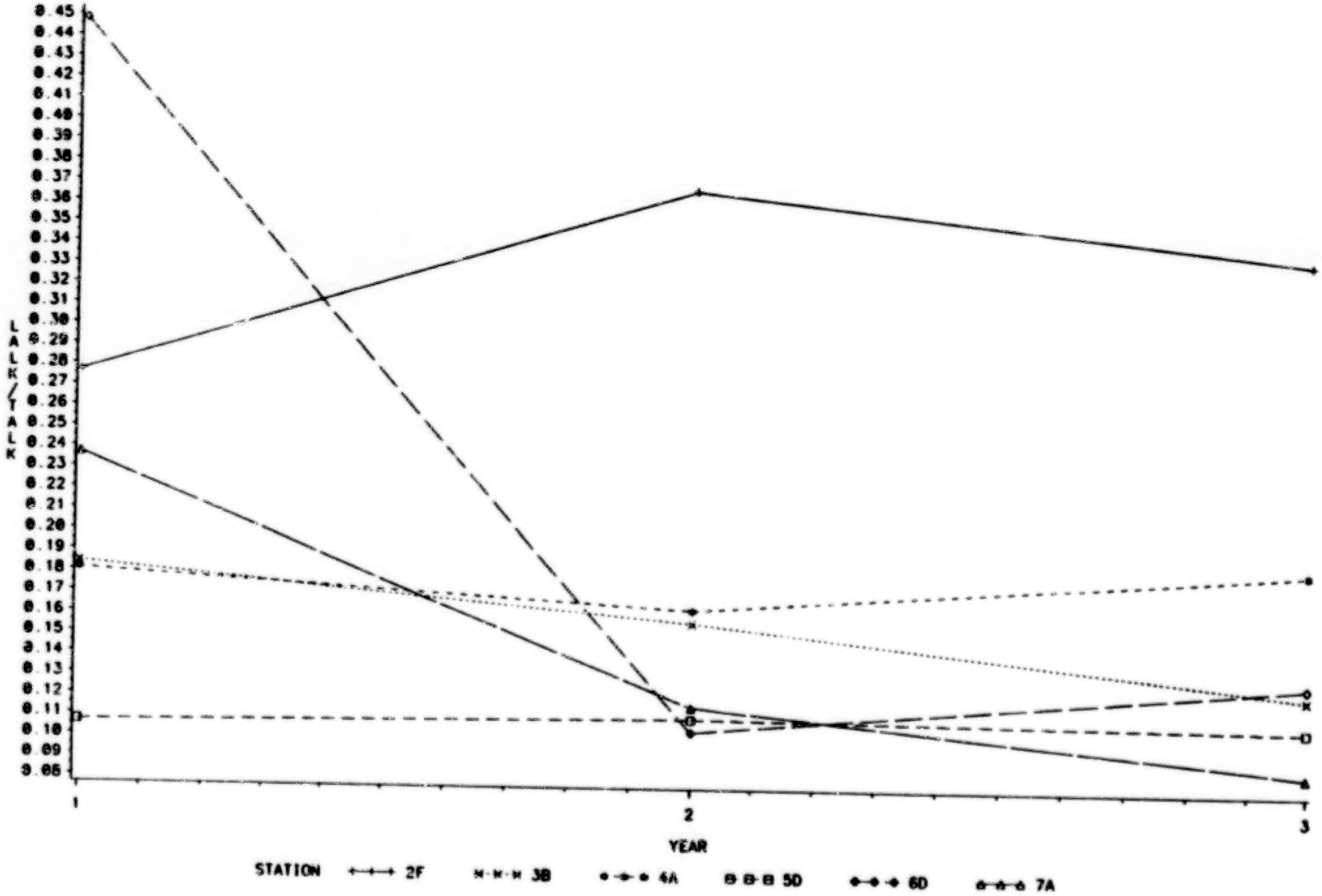
SECTION 1

ANNUAL GEOMETRIC MEAN
CONCENTRATIONS OF EIGHT ANALYTE [illegible]

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS

TYPE OF SEDIMENT: BULK



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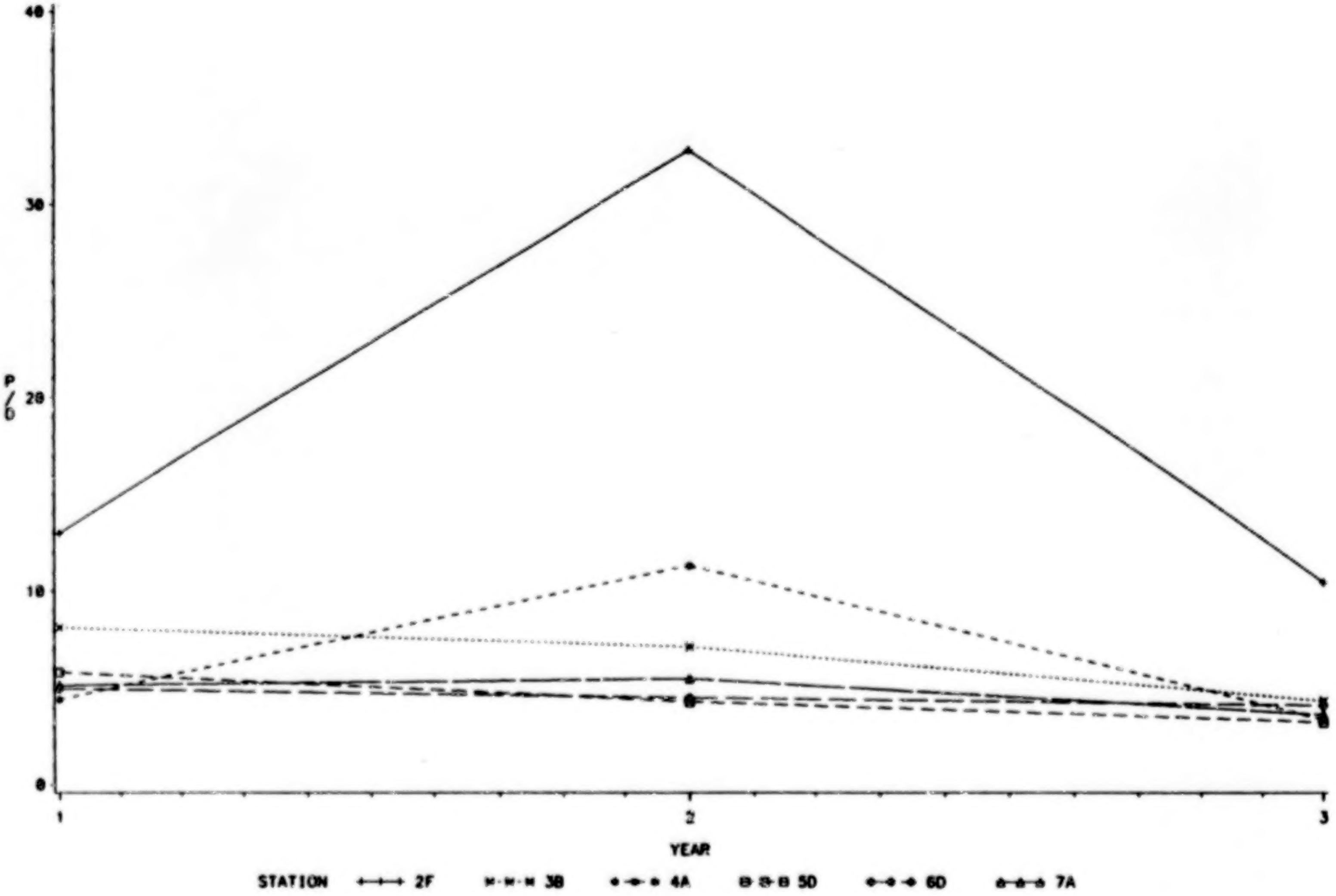
BEAUFORT SEA MONITORING PROGRAM

PLOT OF YEARLY GEOMETRIC MEANS

TYPE OF SEDIMENT: BULK



0286

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS

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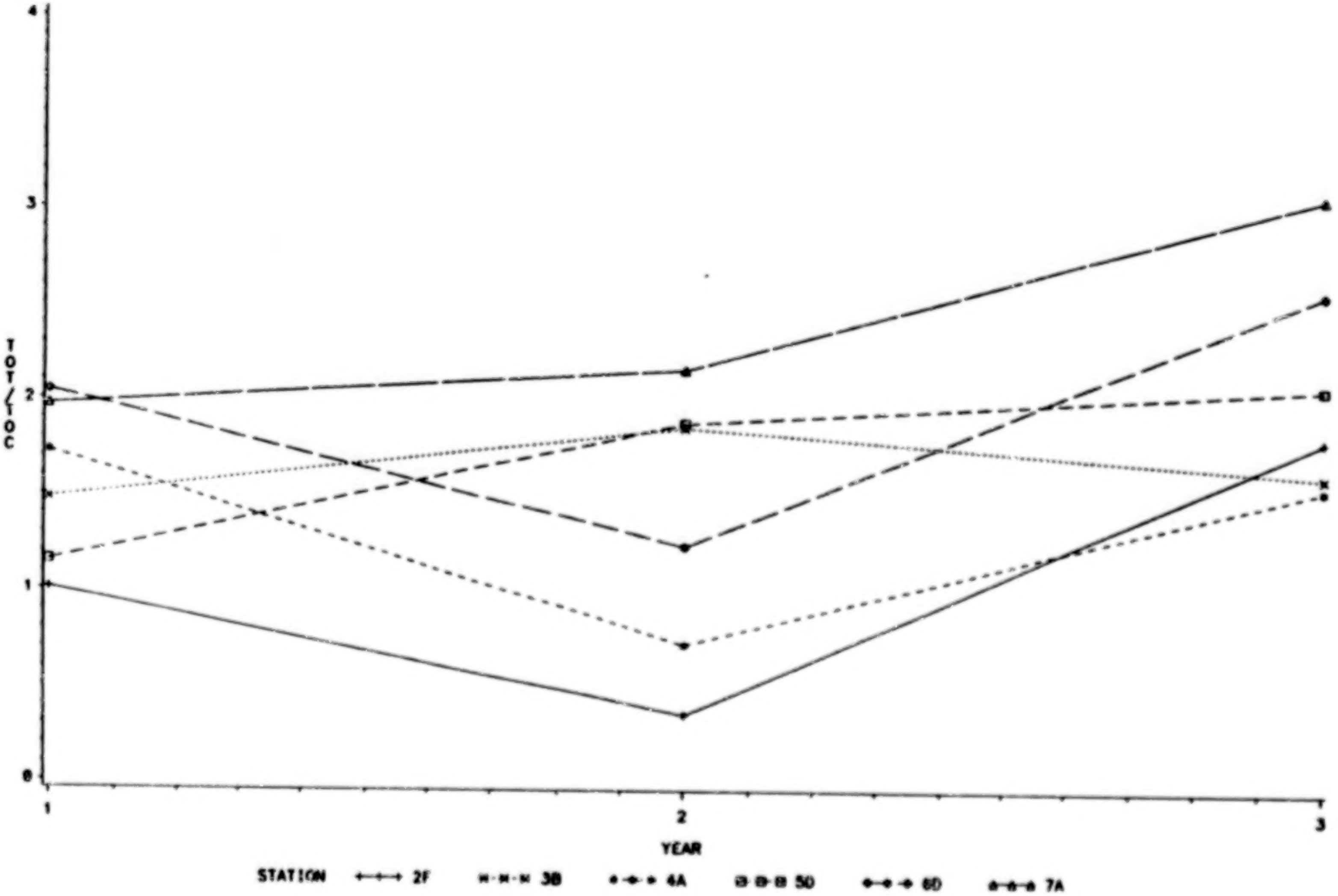

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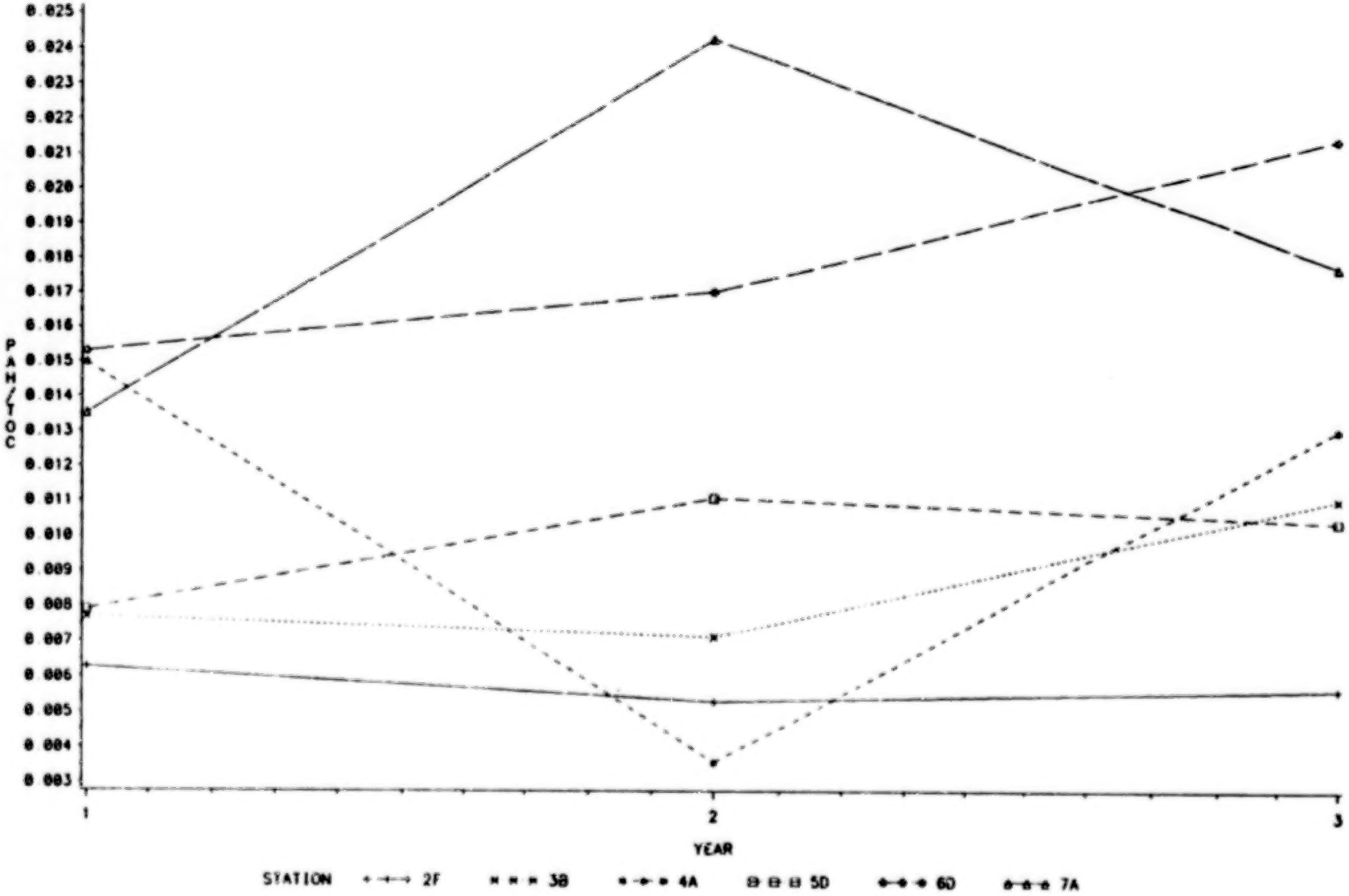
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS

TYPE OF SEDIMENT: BULK



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0285

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS

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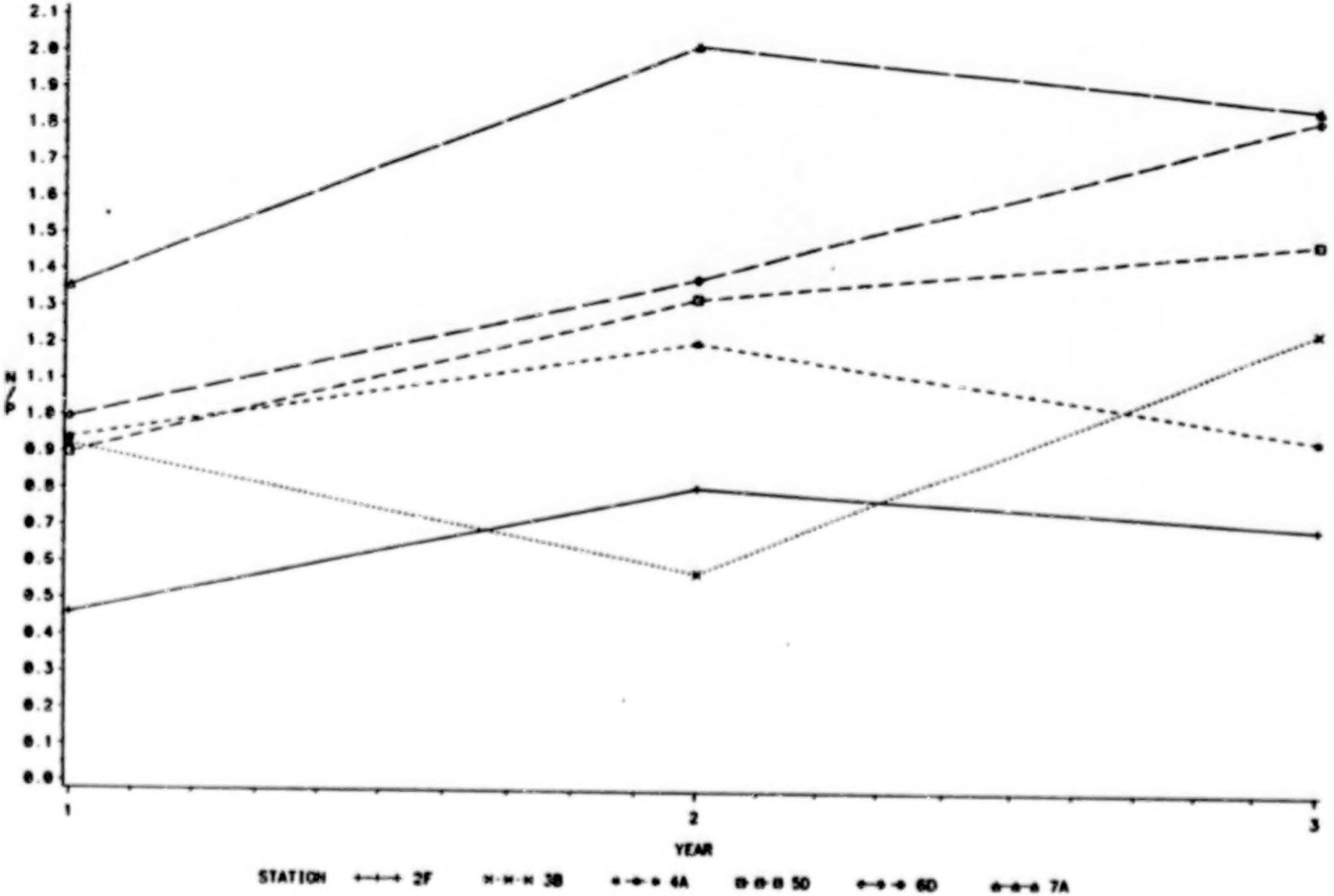

0289

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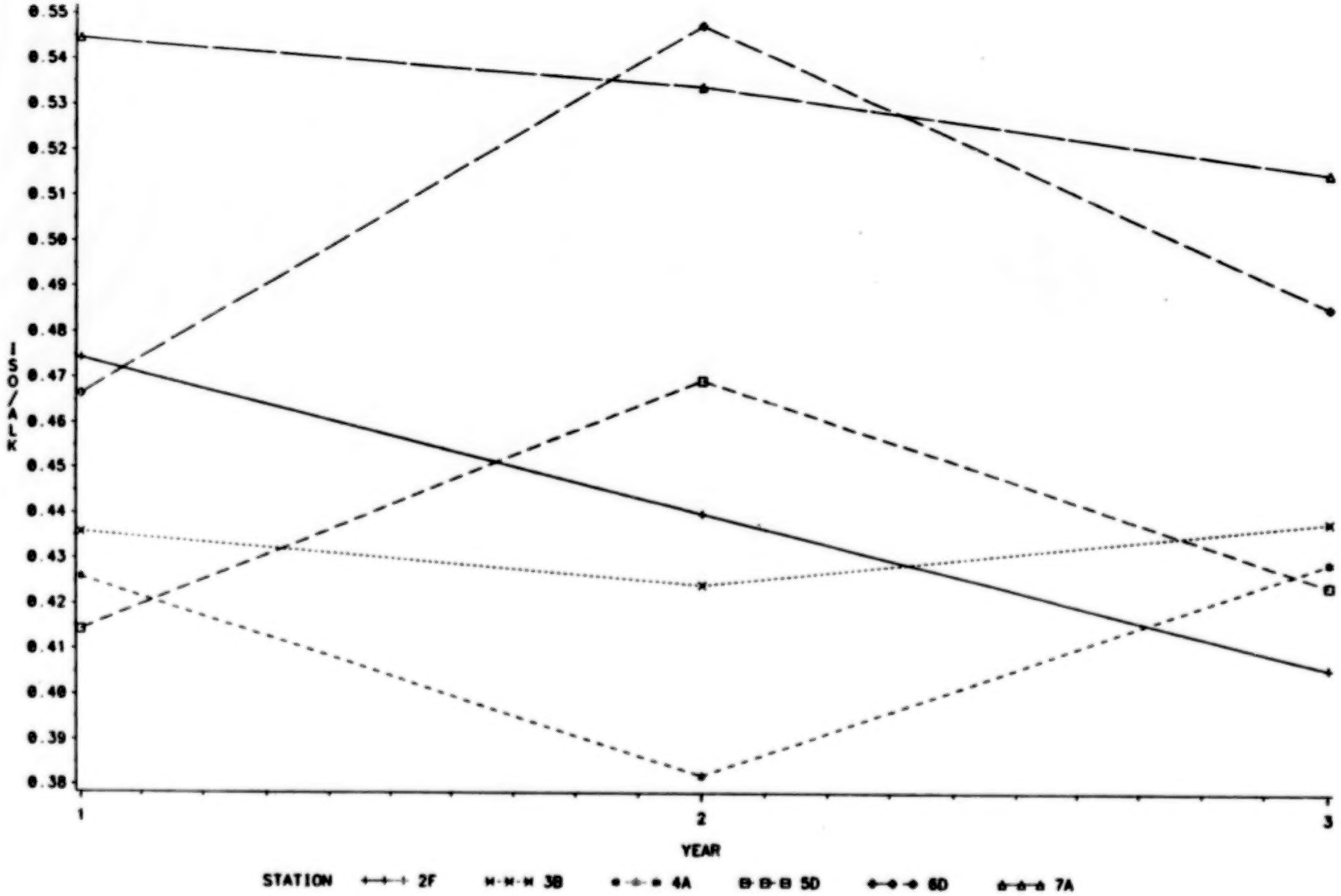
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS

TYPE OF SEDIMENT: BULK



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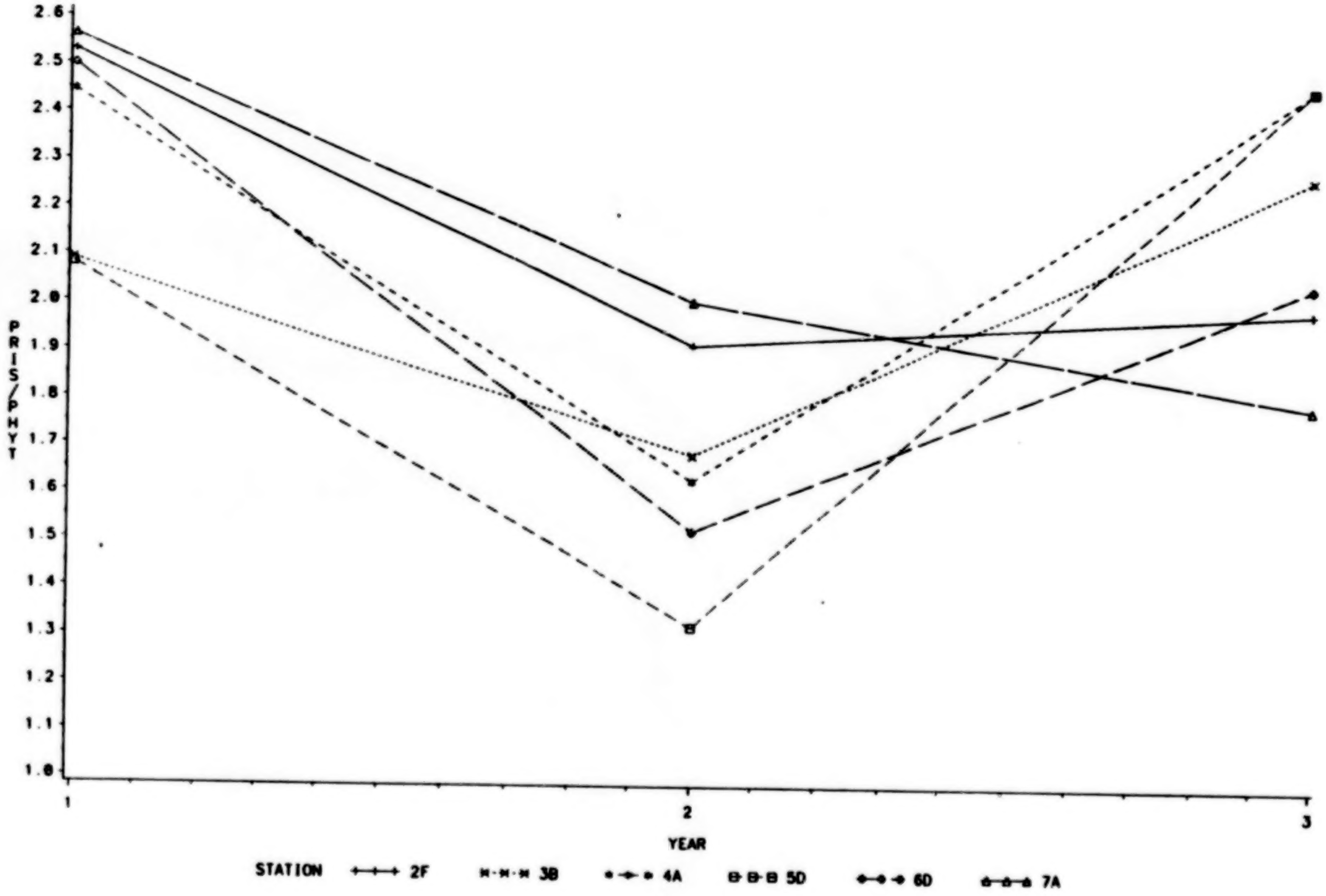
0290

BEAUFORT SEA MONITORING PROGRAM

PLOT OF YEARLY GEOMETRIC MEANS

TYPE OF SEDIMENT: BULK



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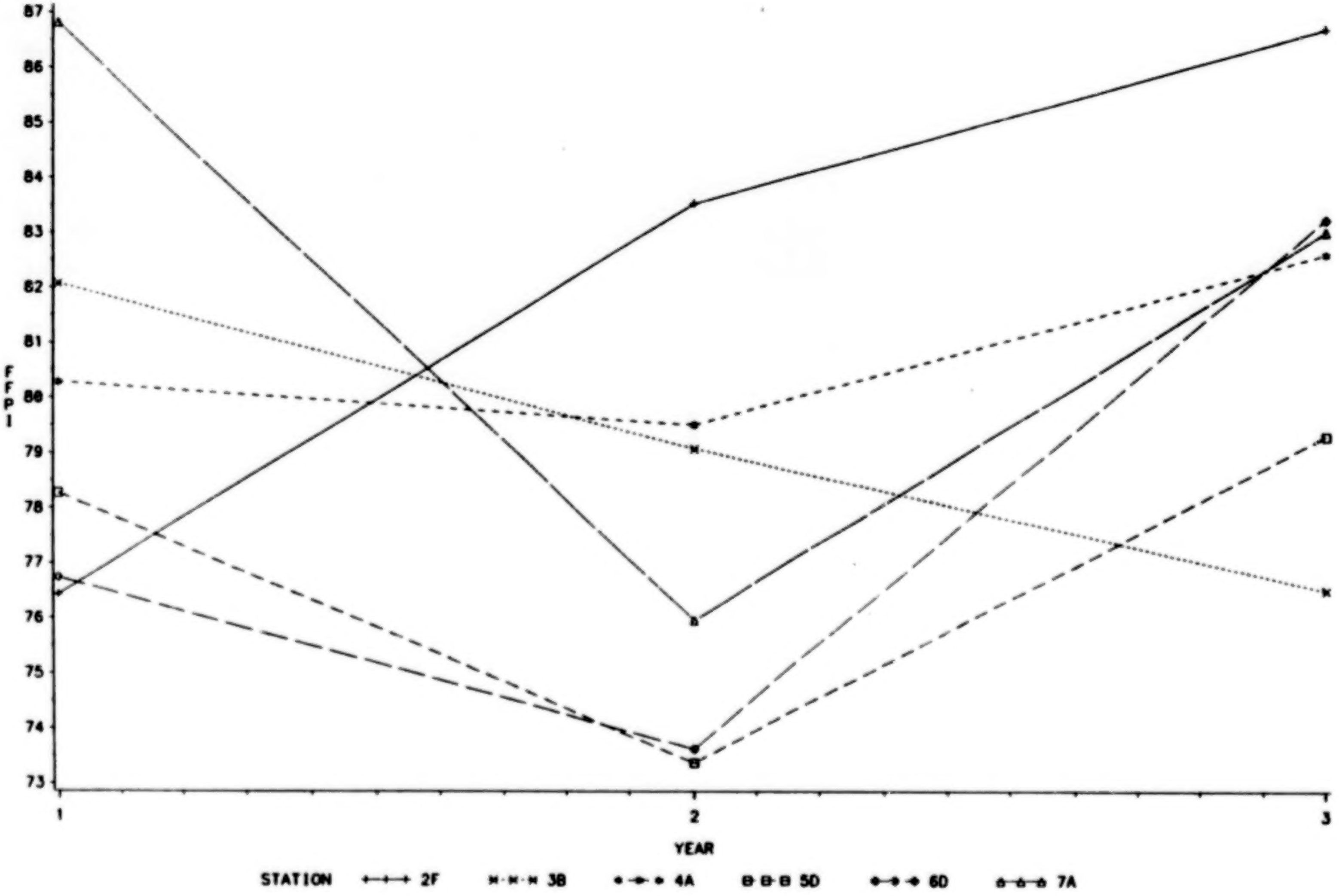
0291

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS

TYPE OF SEDIMENT BULK

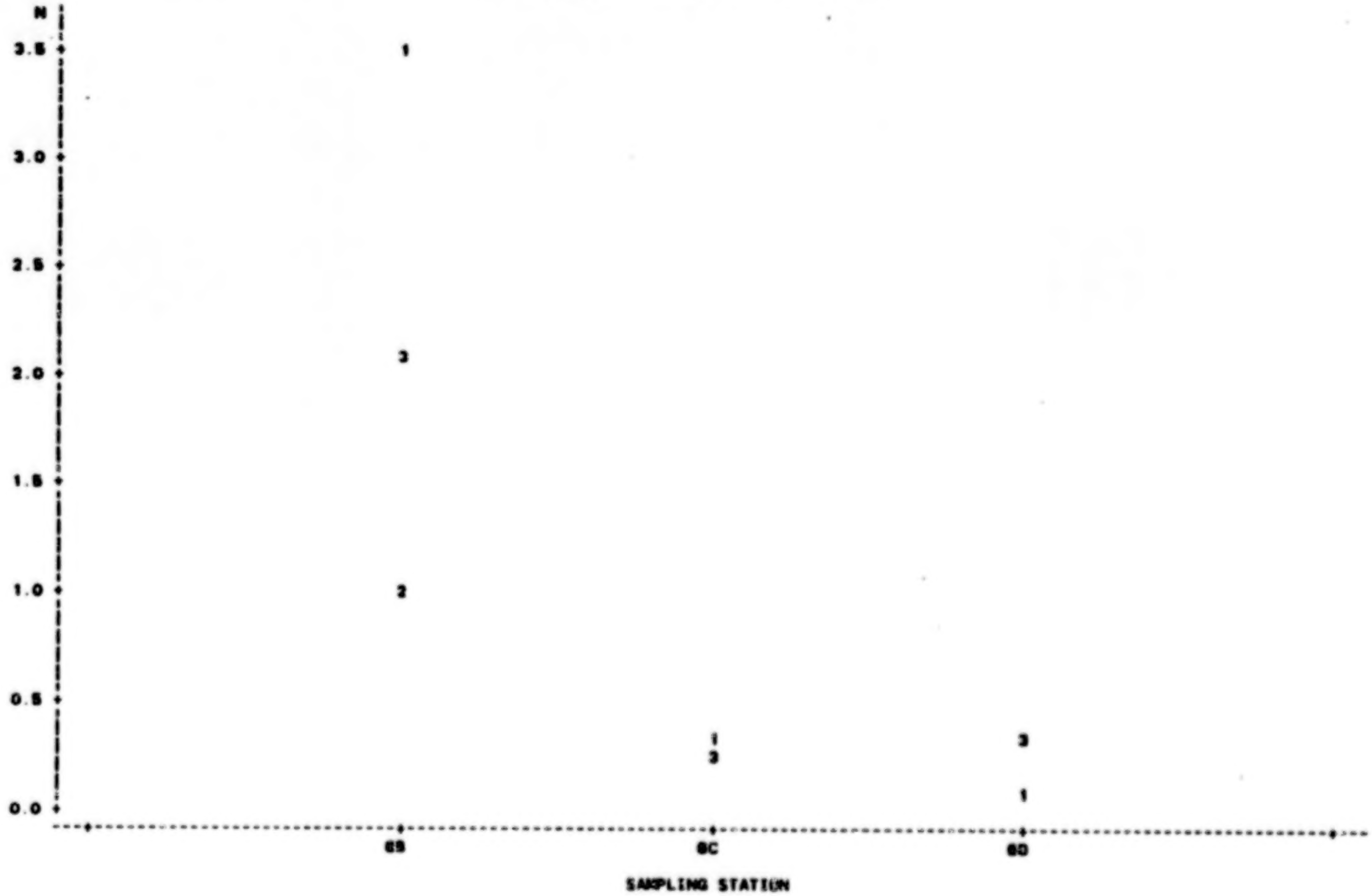


SECTION 6

GRAPHICAL REPRESENTATION OF GRADIENT EFFECTS
AT STATIONS [illegible], [illegible], AND [illegible]

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 8B, 8C, 8D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF N*STATIO   SYMBOL IS VALUE OF YEAR



NOTE: 2 OBS HIDDEN

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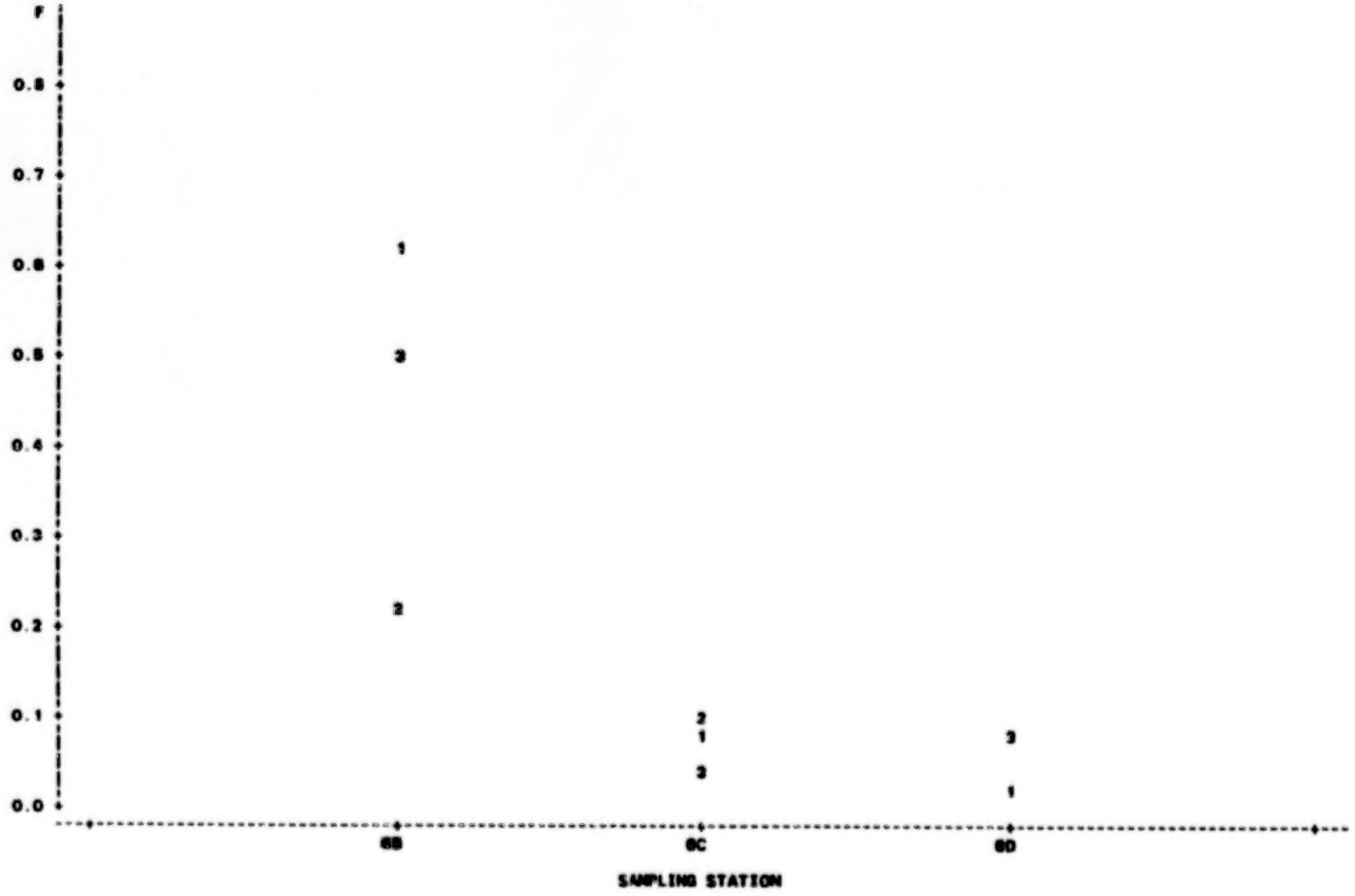
HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF F*STATID SYMBOL IS VALUE OF YEAR



NOTE: 1 OBS HIDDEN

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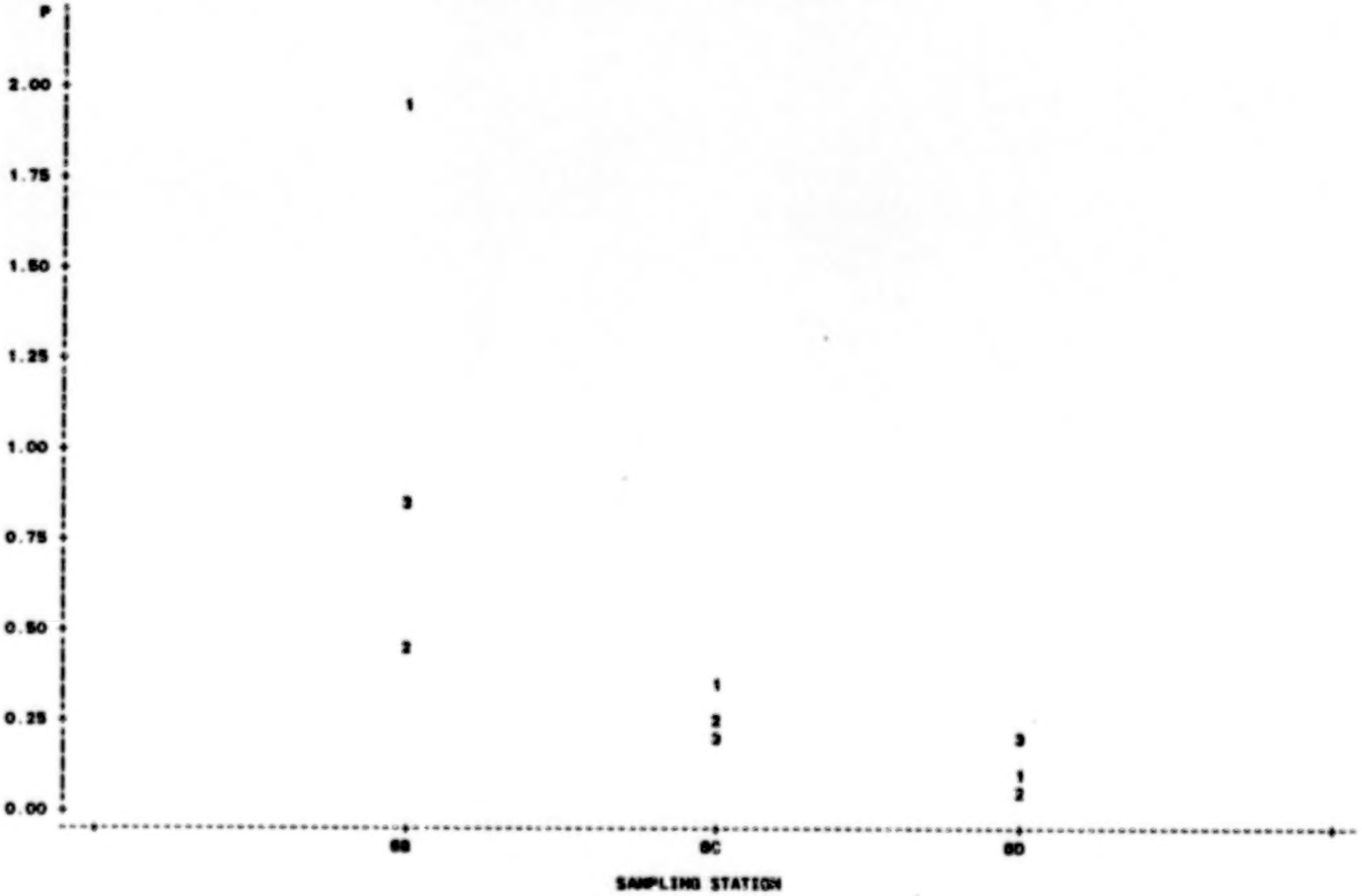
0295

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-5) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 8B, 8C, 8D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF P*STATID   SYMBOL IS VALUE OF YEAR



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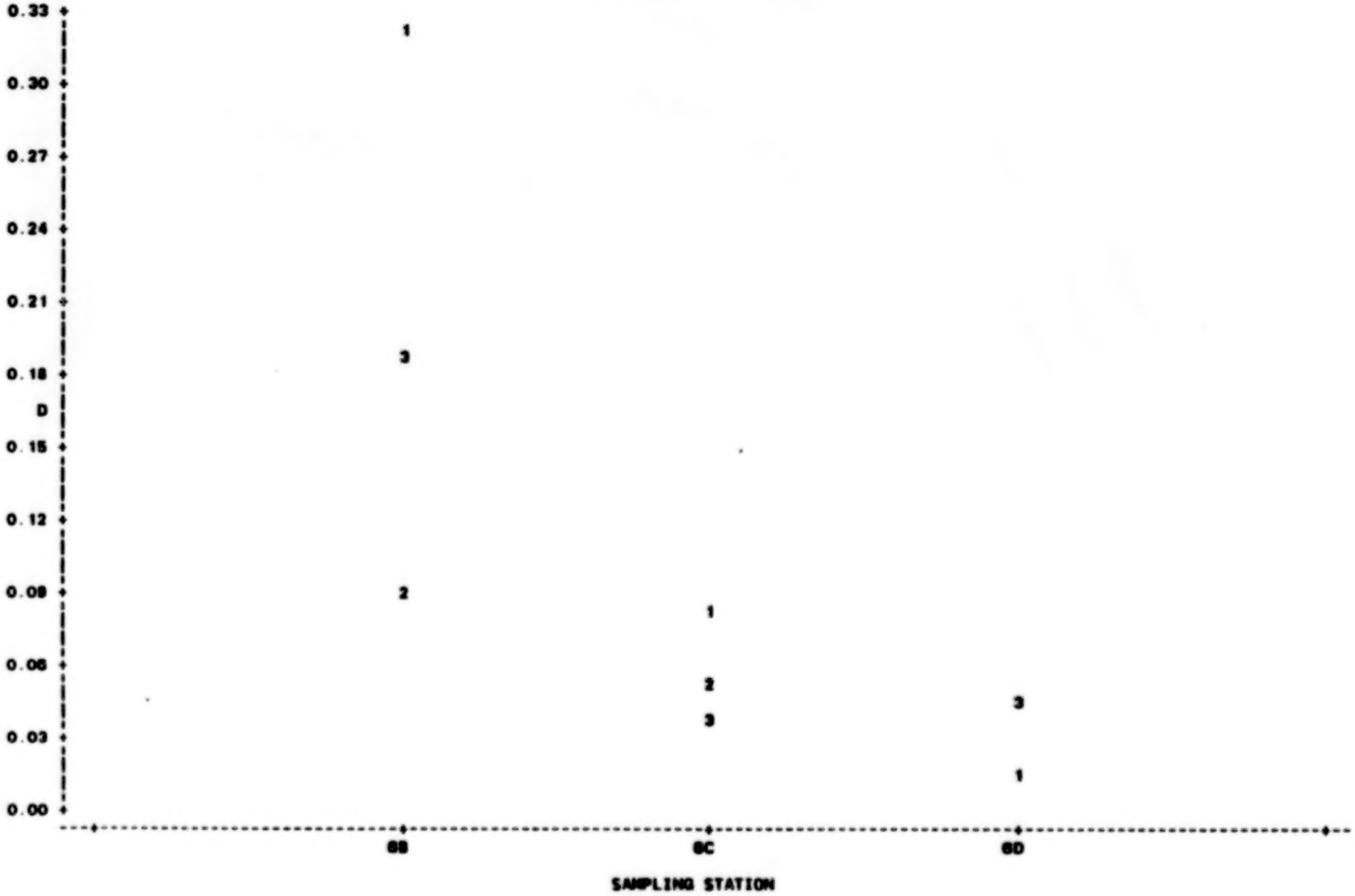
HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 8B, 8C, 8D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

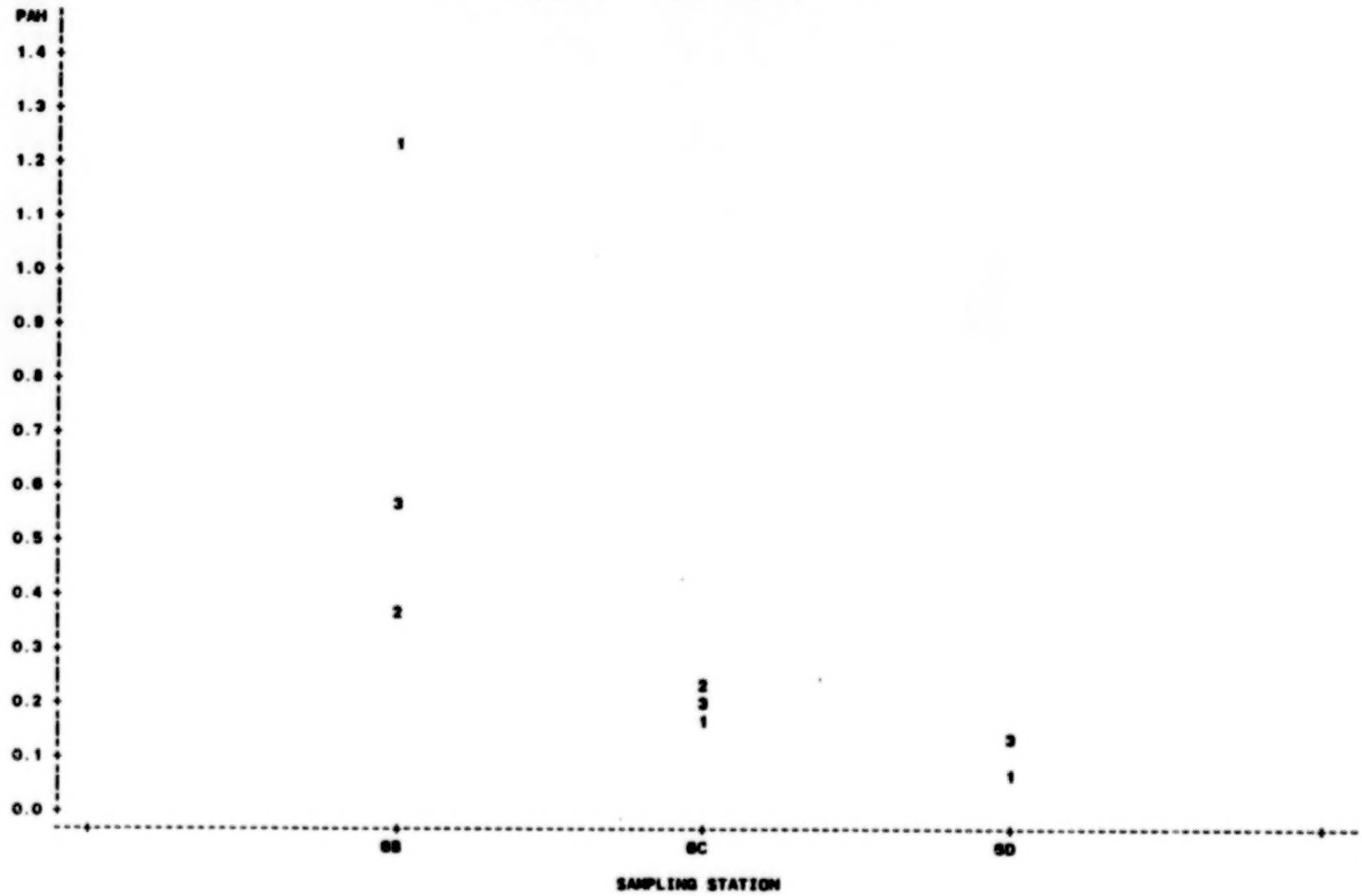
PLOT OF D*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 1 OBS HIDDEN

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 8B, 8C, 8D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF PAH*STATID   SYMBOL IS VALUE OF YEAR



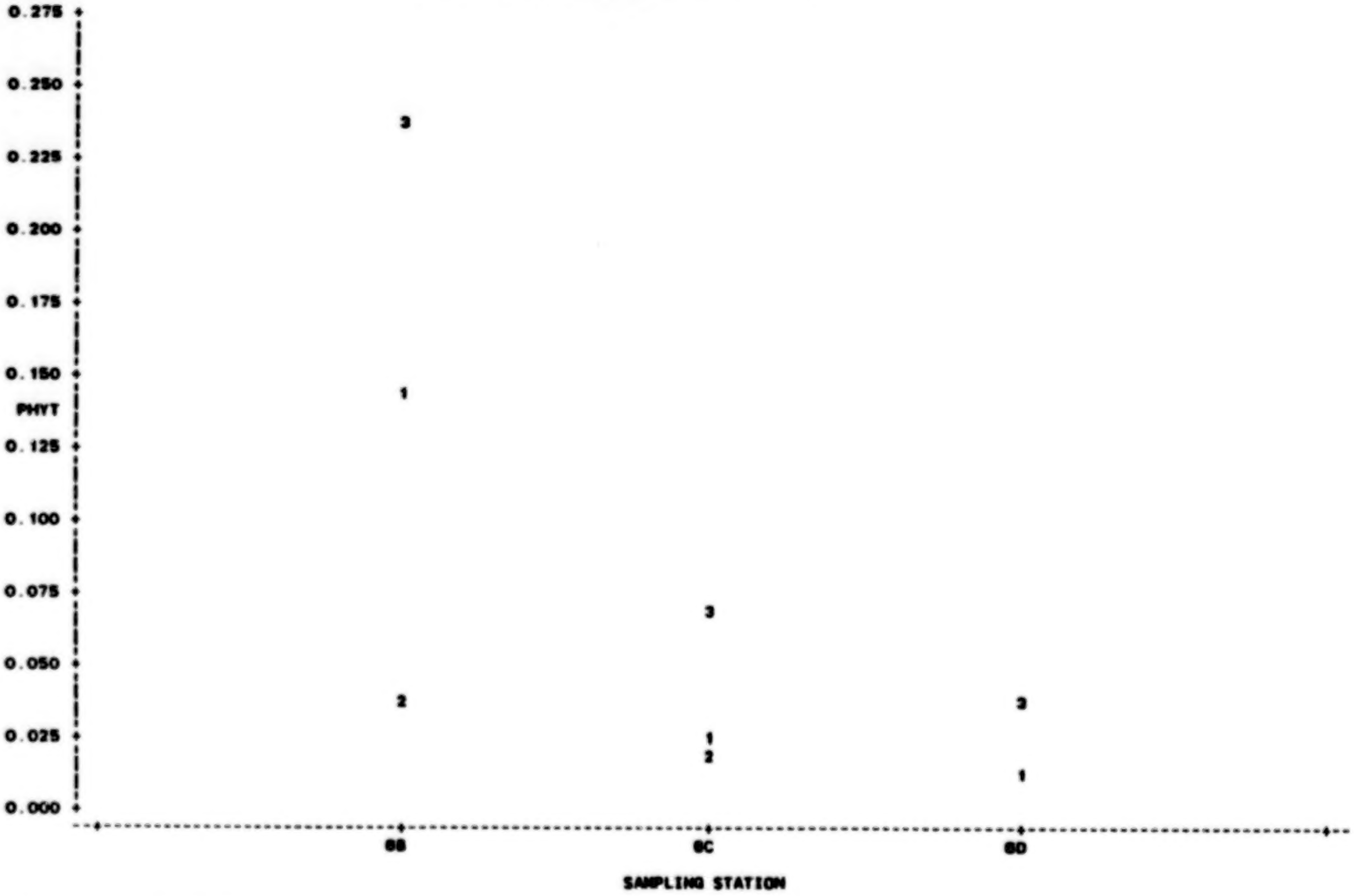
NOTE: 1 OBS HIDDEN

BEST COPY AVAILABLE

0298

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

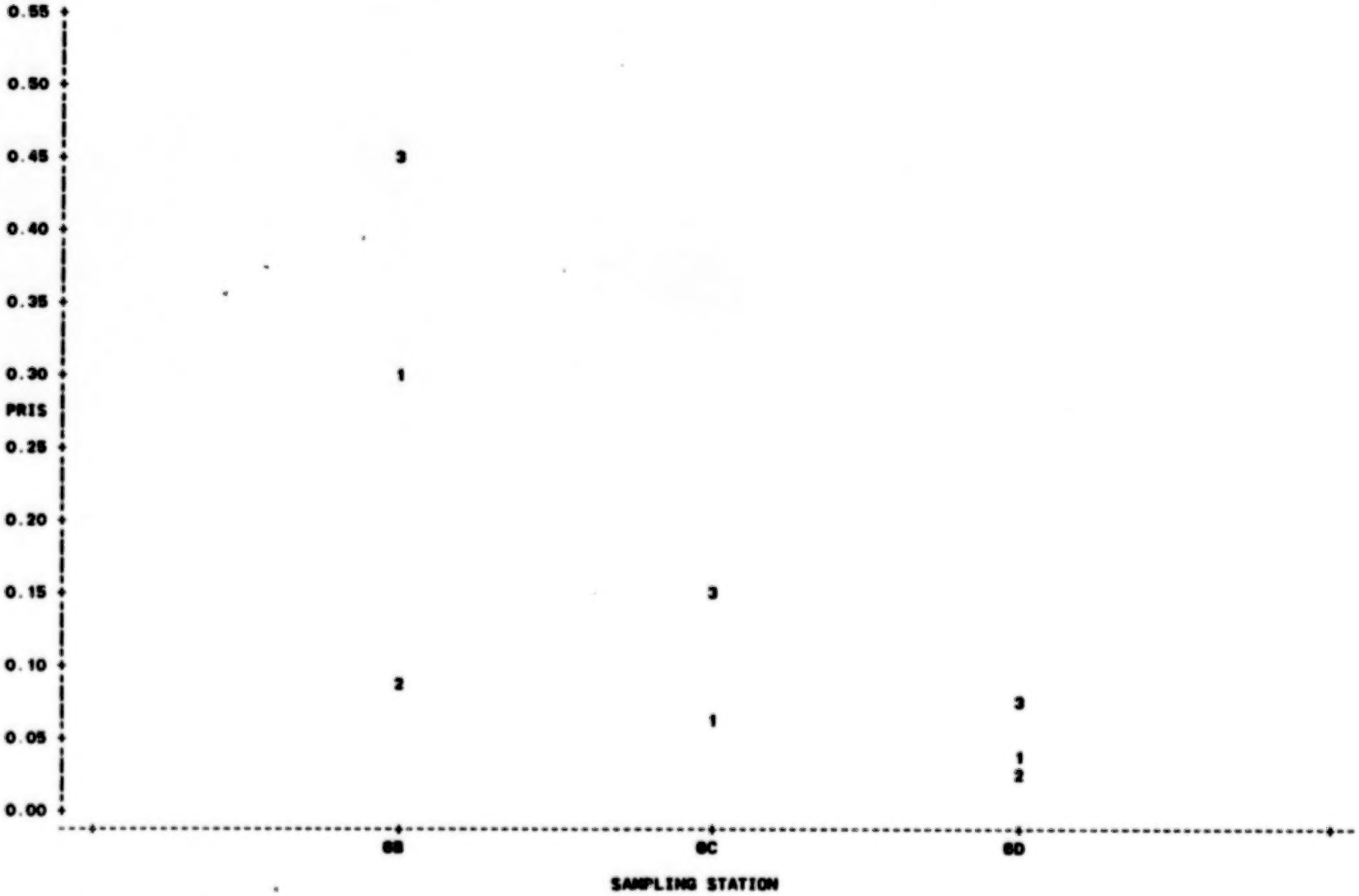
PLOT OF PHYT*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 1 OBS HIDDEN

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF PRIS*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 1 OBS HIDDEN

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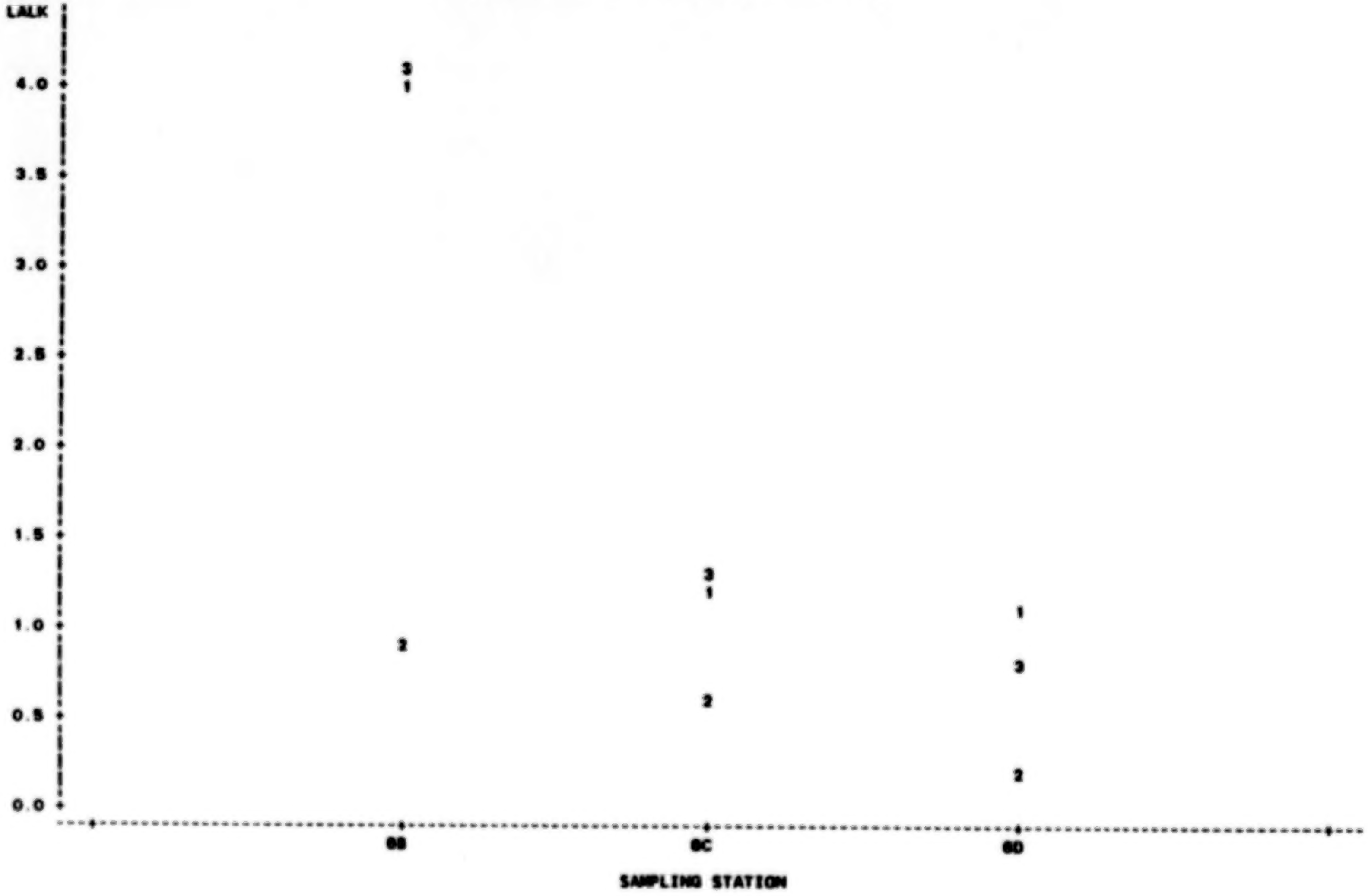
0300

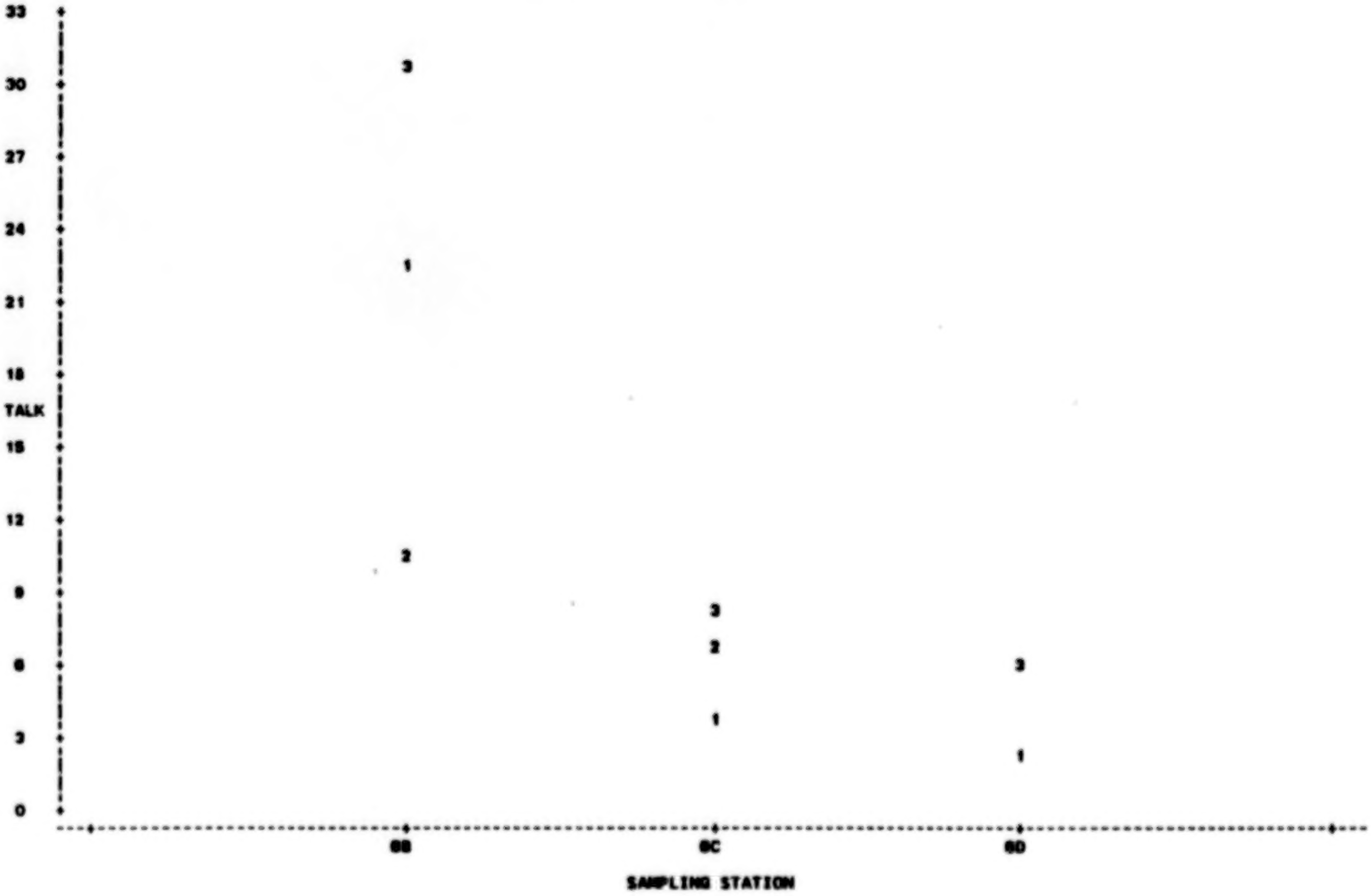
HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 8B, 8C, 8D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF LALK*STATID   SYMBOL IS VALUE OF YEAR



HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

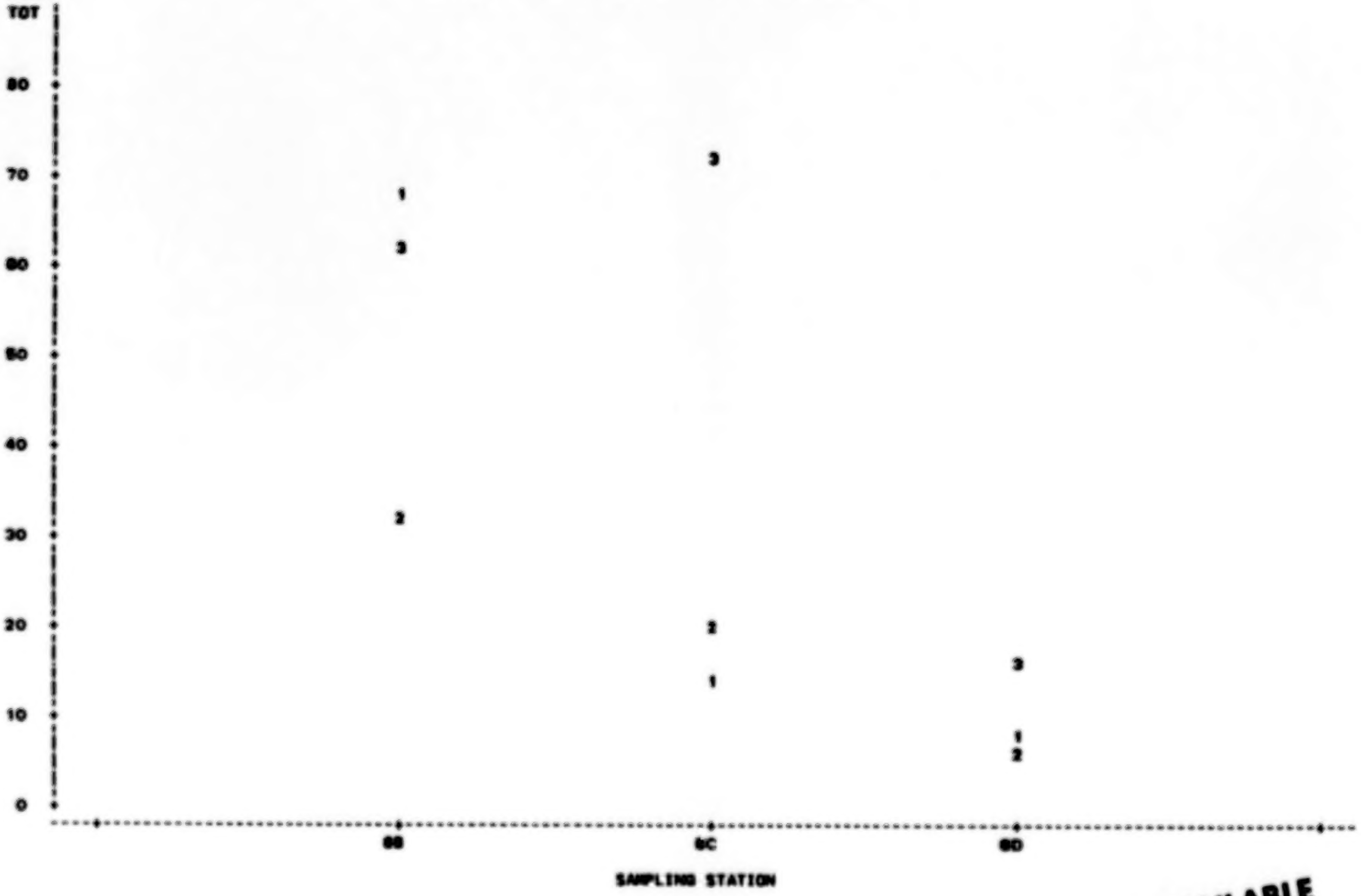
PLOT OF TALK*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 1 OBS HIDDEN

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF TOT*STATID   SYMBOL IS VALUE OF YEAR



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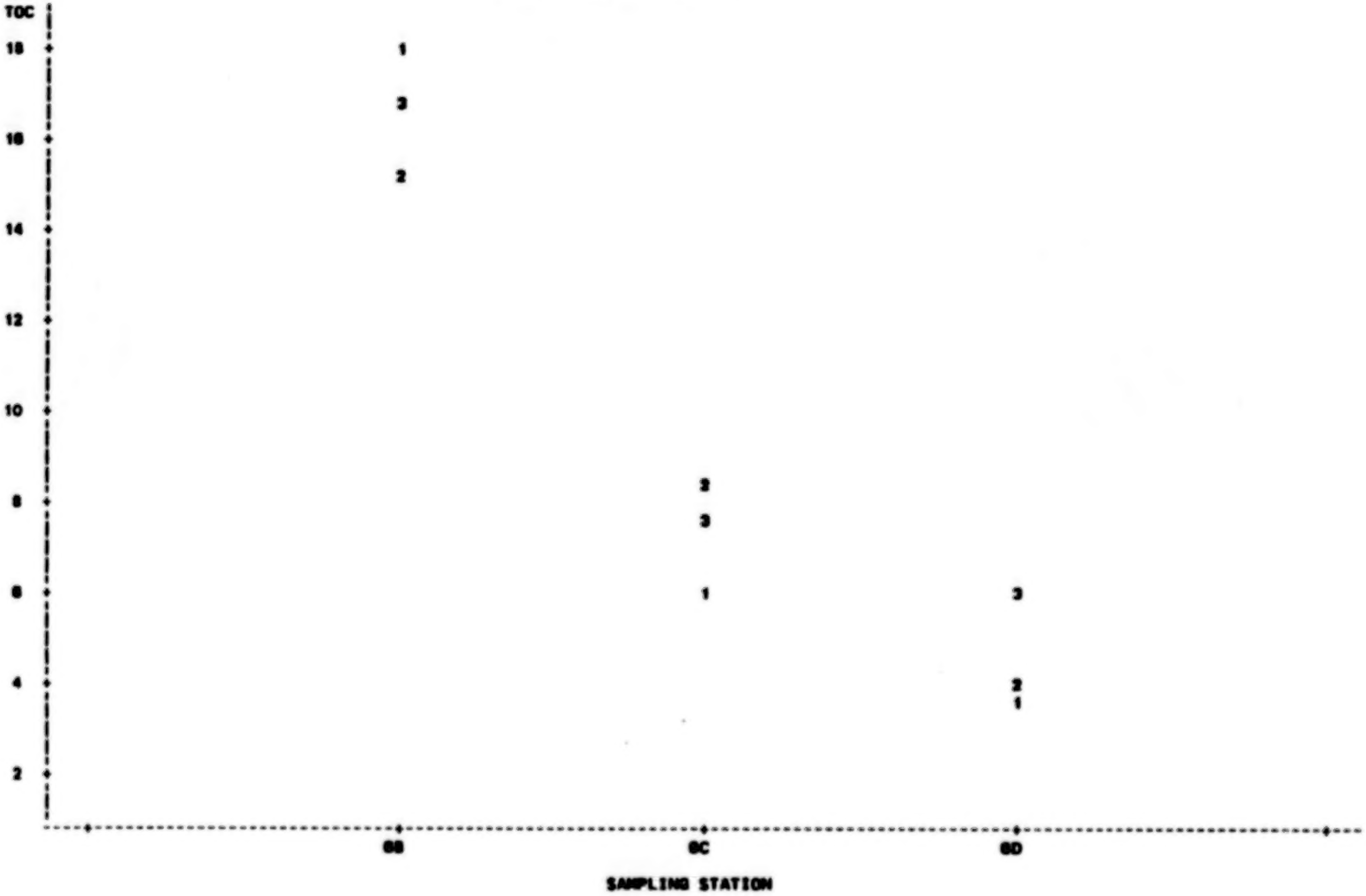
HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF TOC*STATID   SYMBOL IS VALUE OF YEAR



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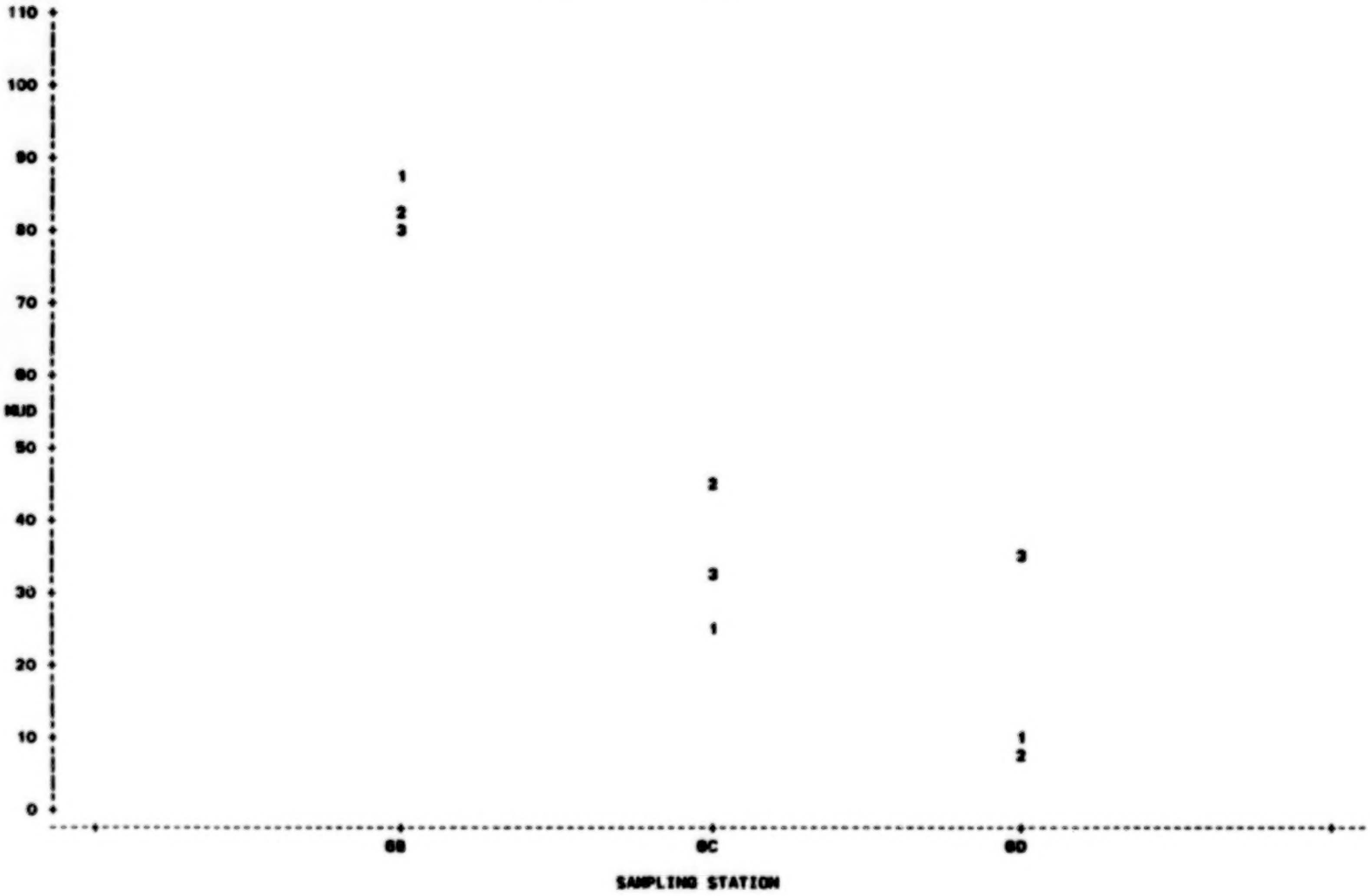
0304

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

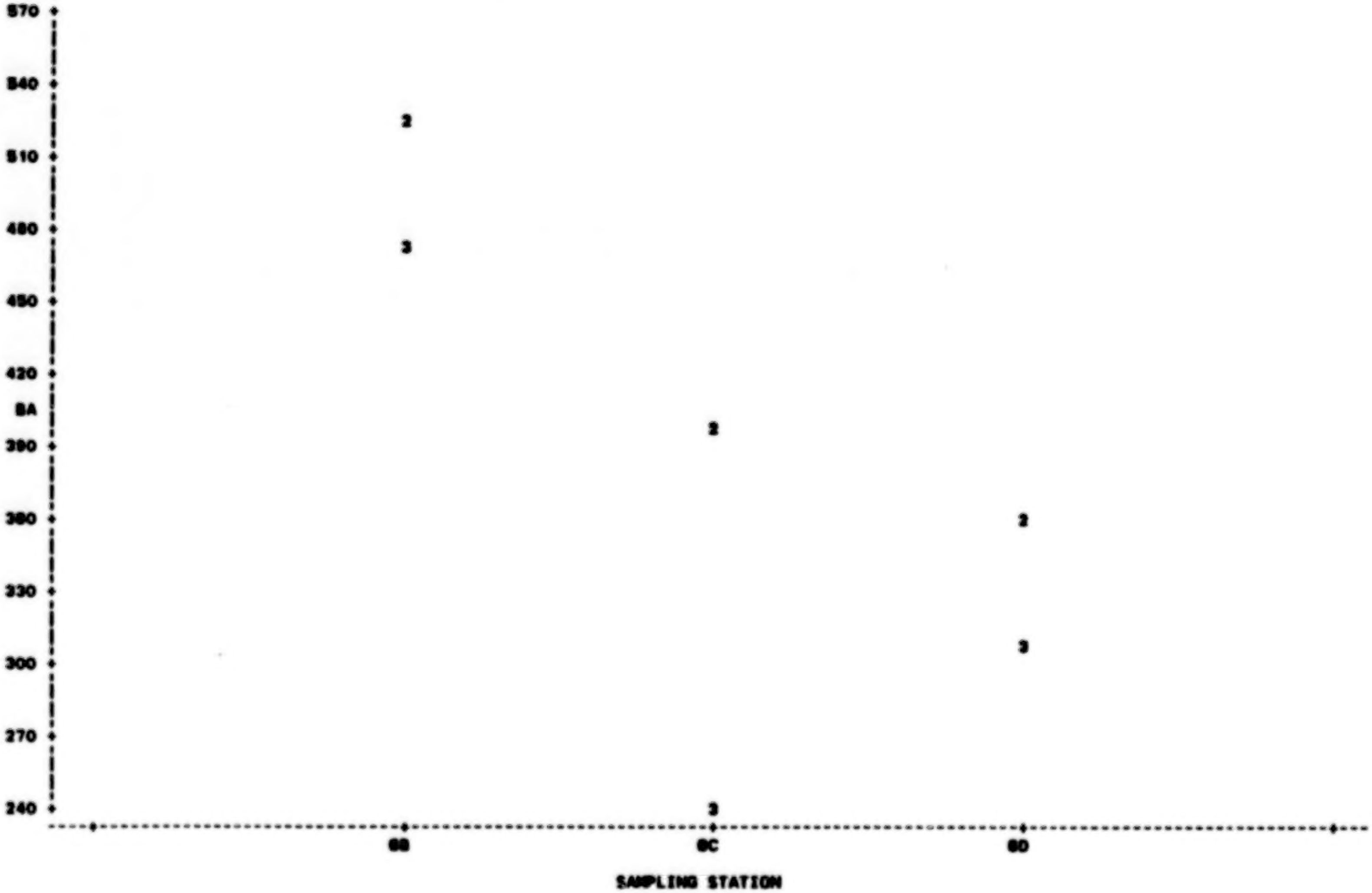
PLOT OF MUD*STATID   SYMBOL IS VALUE OF YEAR



0305

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF BA*STATID   SYMBOL IS VALUE OF YEAR

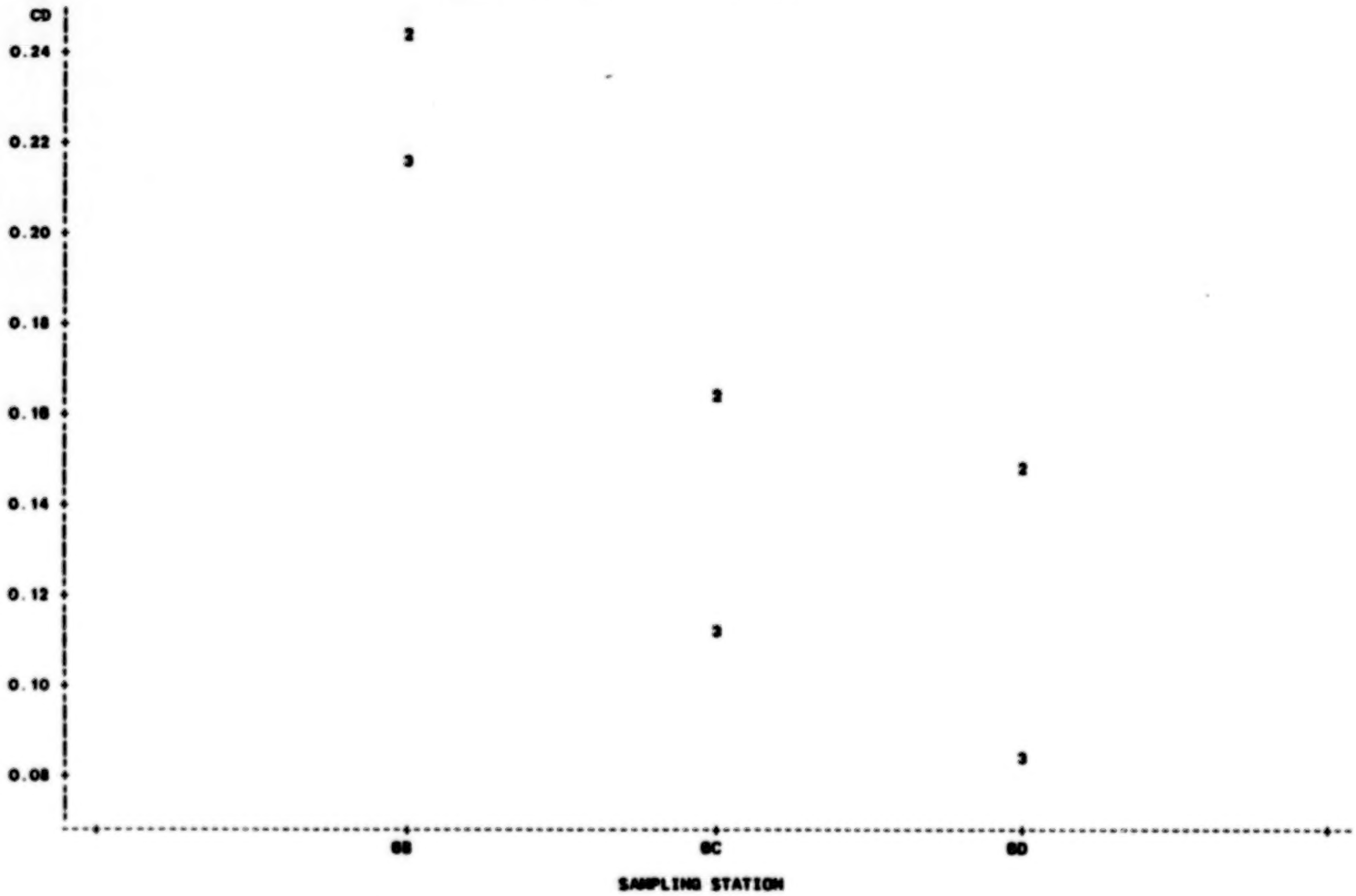


NOTE: 3 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

0306

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

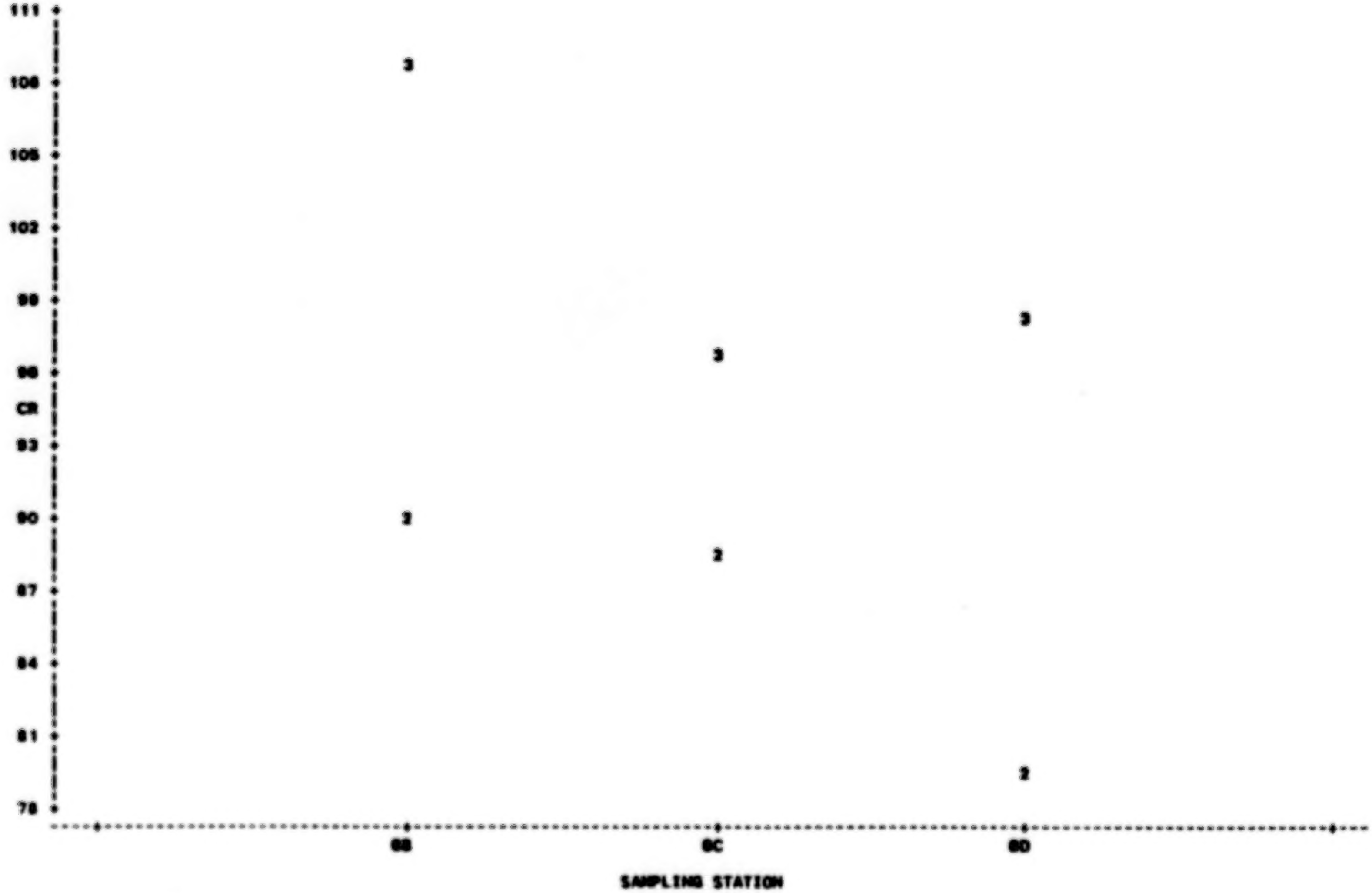
PLOT OF CD*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 3 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 8B, 8C, 8D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF CR*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 3 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

0308

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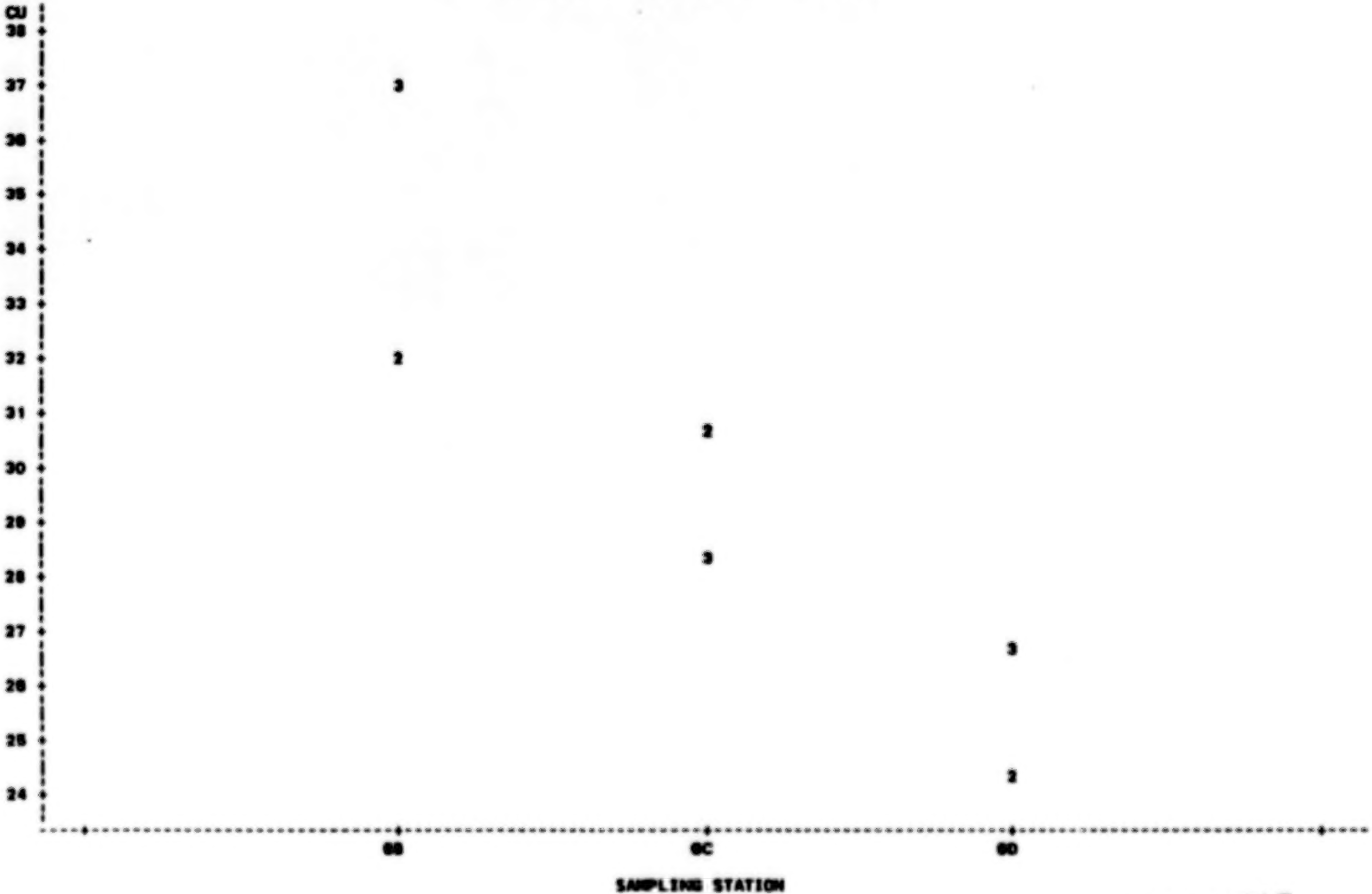
HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 0B, 0C, 0D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF CU*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 3 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

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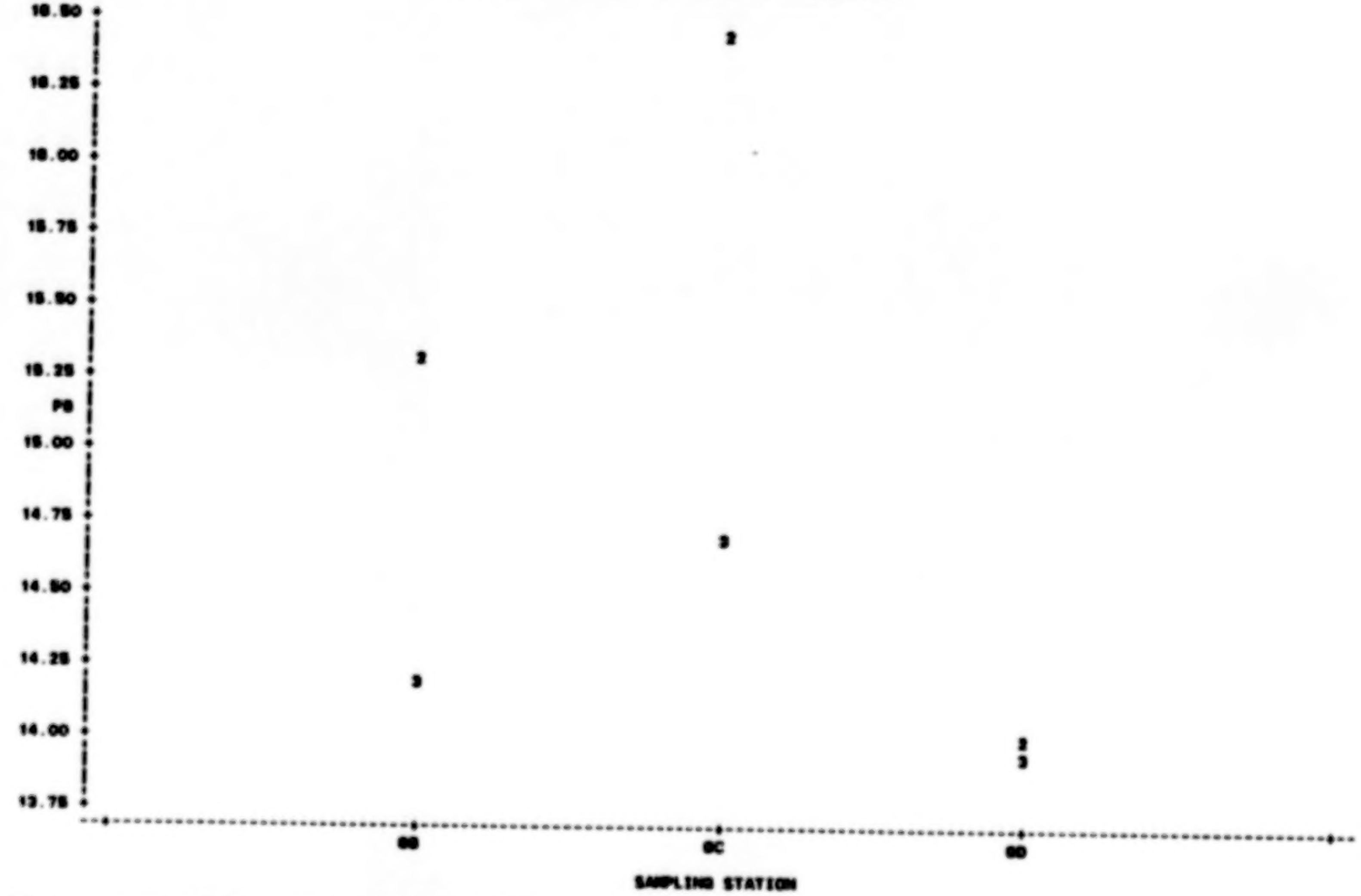
HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF PB*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 3 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

0310

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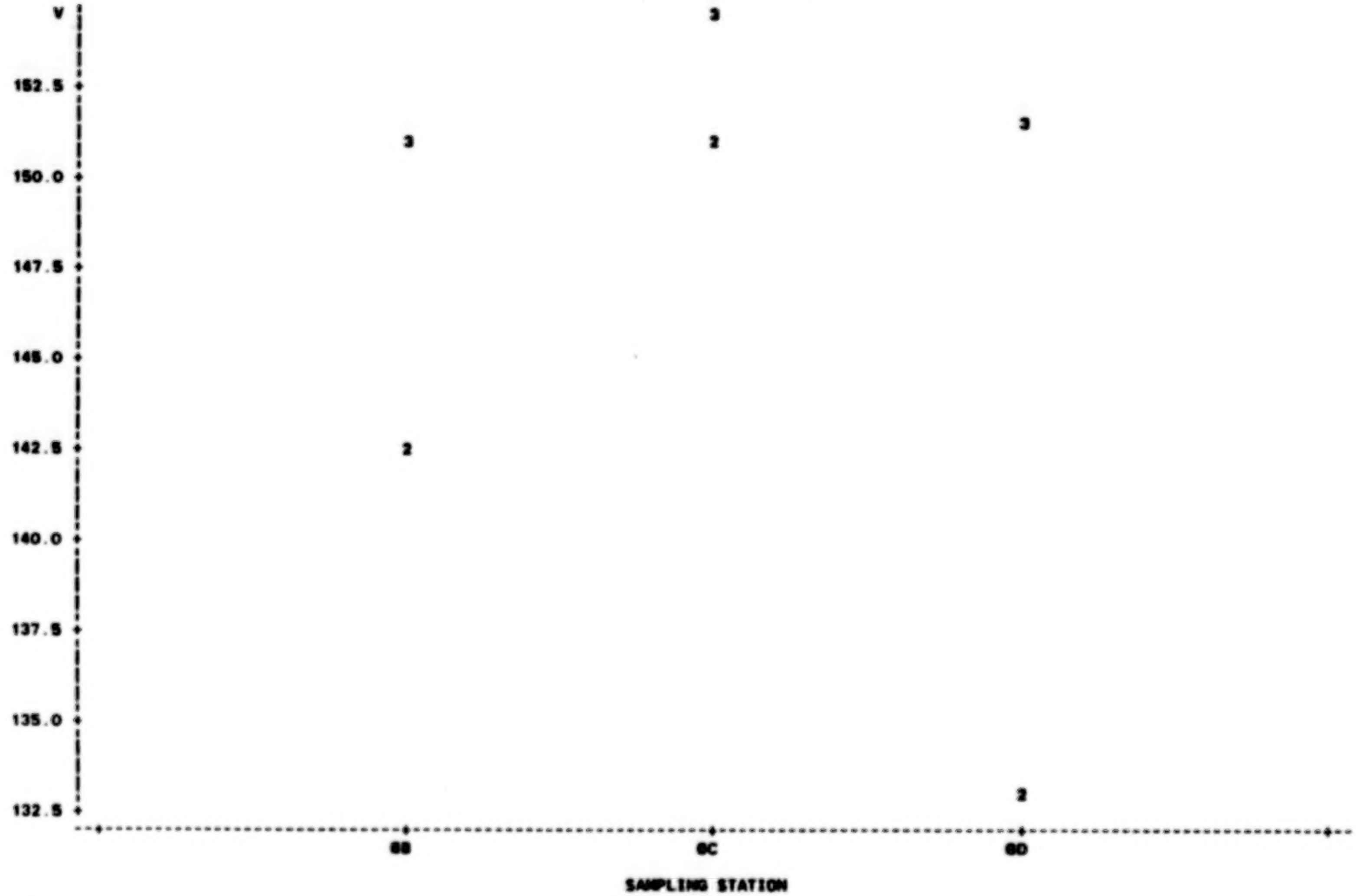
HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

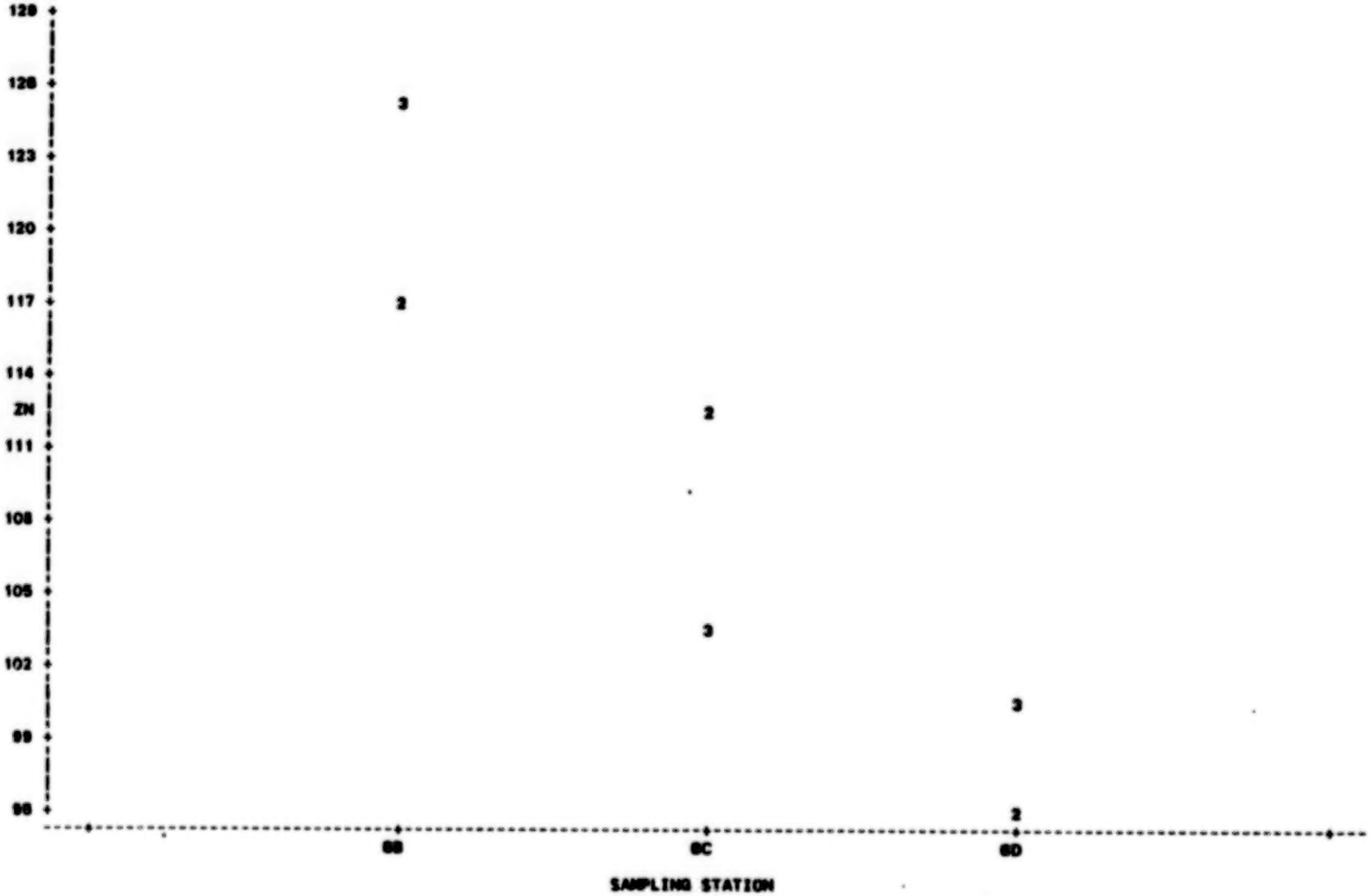
PLOT OF V*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 3 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

HYDROCARBONS IN BULK SEDIMENTS (YEARS 1-3) AND METALS IN
FINE SEDIMENTS (YEARS 2,3) FROM STATIONS 6B, 6C, 6D
INVESTIGATION OF GRADIENT EFFECTS
PLOT OF GEOMETRIC MEANS FOR EACH SAMPLING YEAR

PLOT OF ZN*STATID   SYMBOL IS VALUE OF YEAR



NOTE: 3 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

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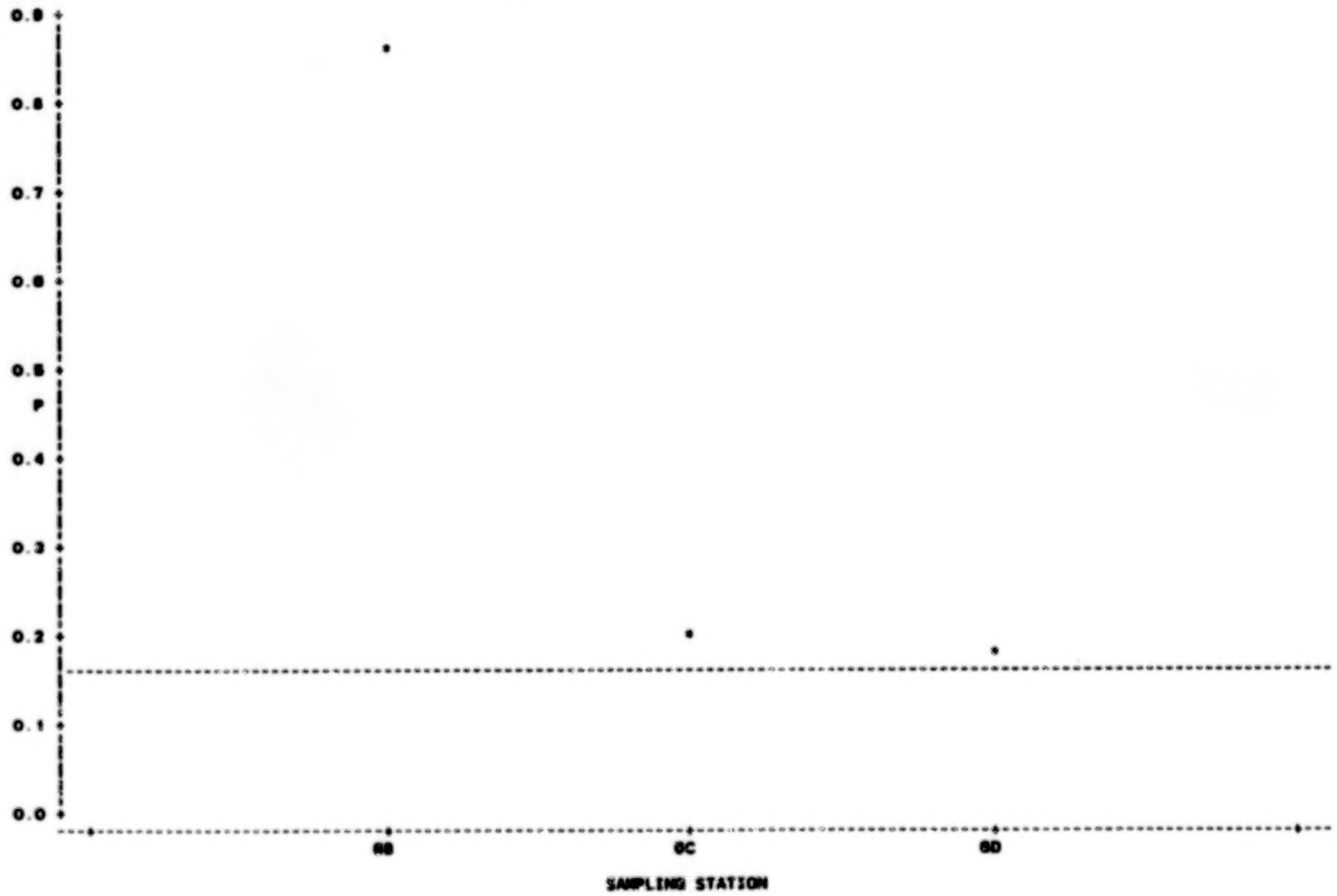
0312

SECTION 7

GRAPHICAL REPRESENTATION OF GRADIENT EFFECTS: GEOMETRIC MEANS OF HYDROCARBON AND METAL RATIOS AT STATIONS 6B, 6C, 6D, AND 6K

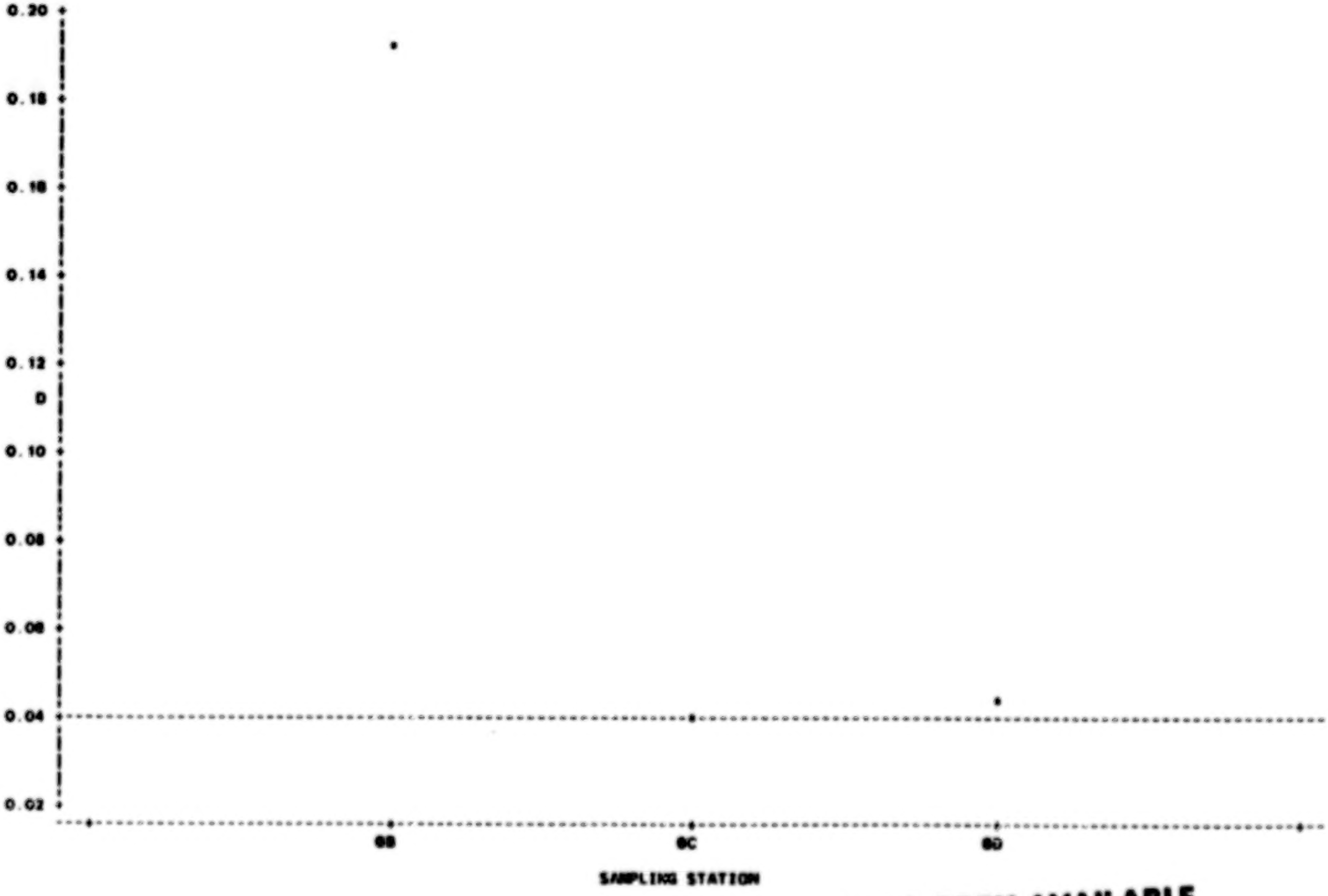
SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 6B,6C,6D,6K DURING YEAR 3
PLOT OF GEOMETRIC MEANS USING STATION 6K AS REFERENCE LINE

PLOT OF P*STATID   SYMBOL USED IS *



SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 0B,0C,0D,0K DURING YEAR 3
PLOT OF GEOMETRIC MEANS USING STATION 0K AS REFERENCE LINE

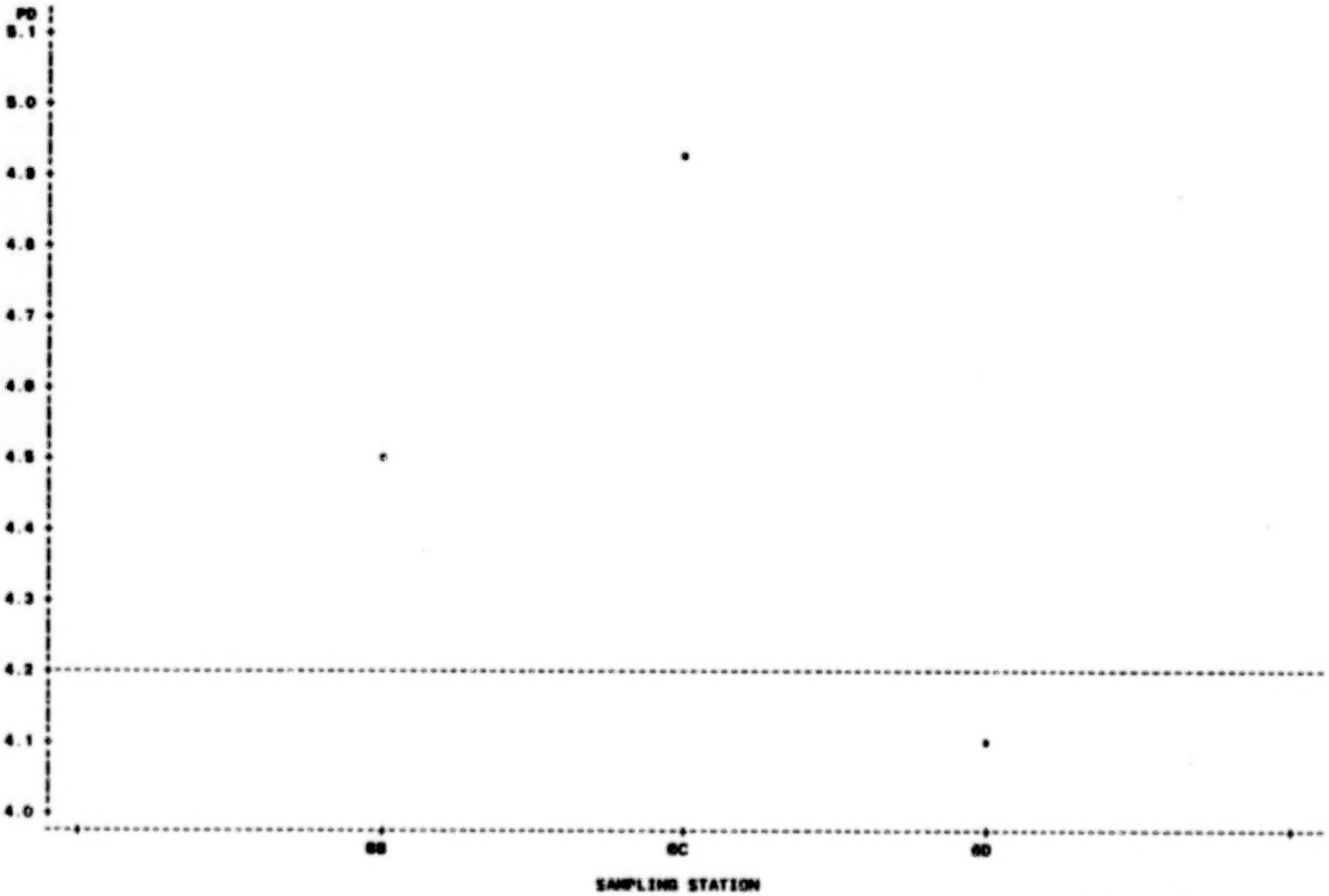
PLOT OF D*STATID SYMBOL USED IS *



0315

SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 6B,6C,6D,6K DURING YEAR 1
PLOT OF GEOMETRIC MEANS USING STATION 6K AS REFERENCE LINE

PLOT OF PD*STATID SYMBOL USED IS *



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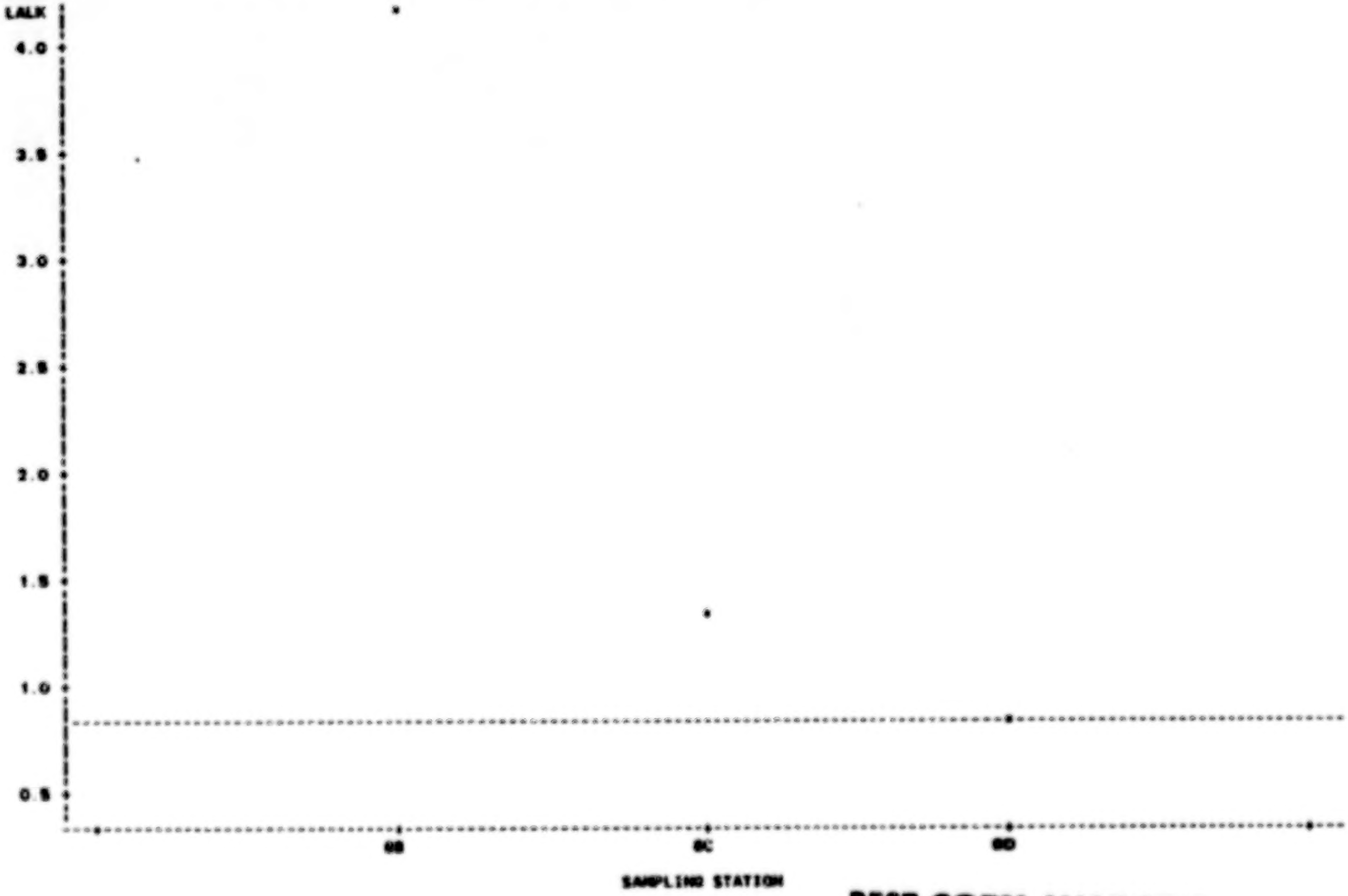
SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 8B,8C,8D,8K DURING YEAR 3
PLOT OF GEOMETRIC MEANS USING STATION 8K AS REFERENCE LINE

PLOT OF LALK*STATID SYMBOL USED IS *



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0317

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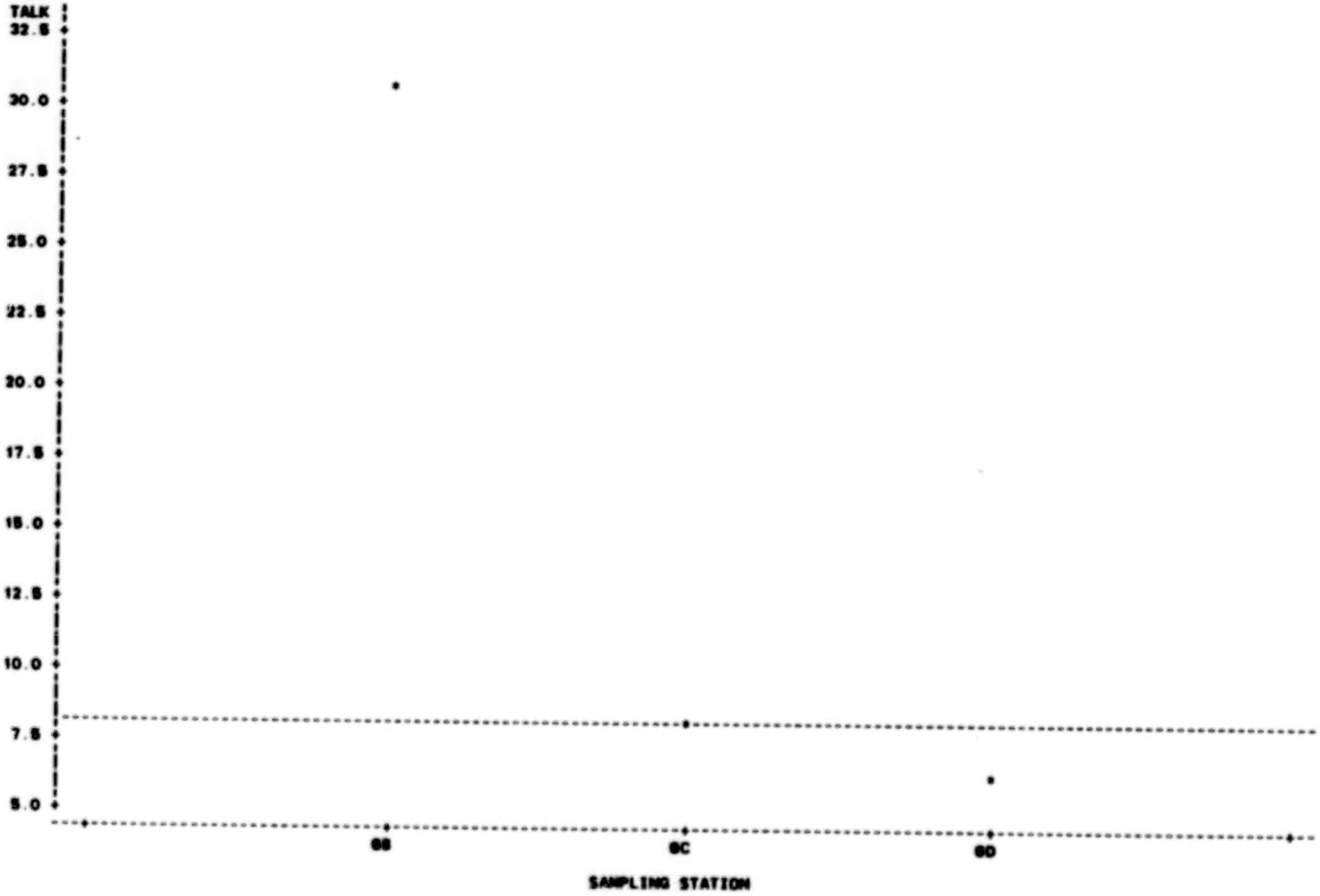
SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 6B,6C,6D,6K DURING YEAR 3
PLOT OF GEOMETRIC MEANS USING STATION 6K AS REFERENCE LINE

PLOT OF TALK*STATID   SYMBOL USED IS *



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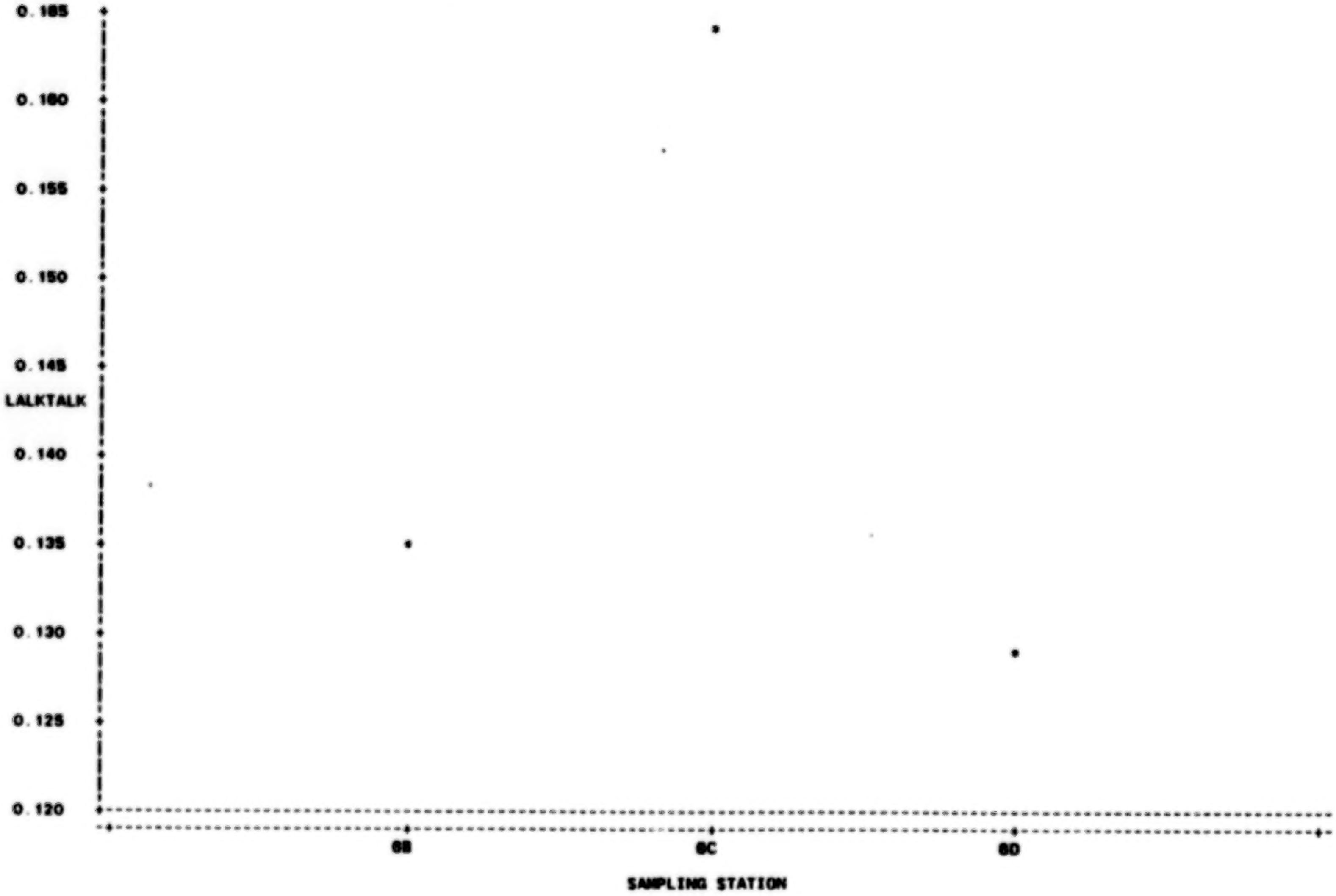
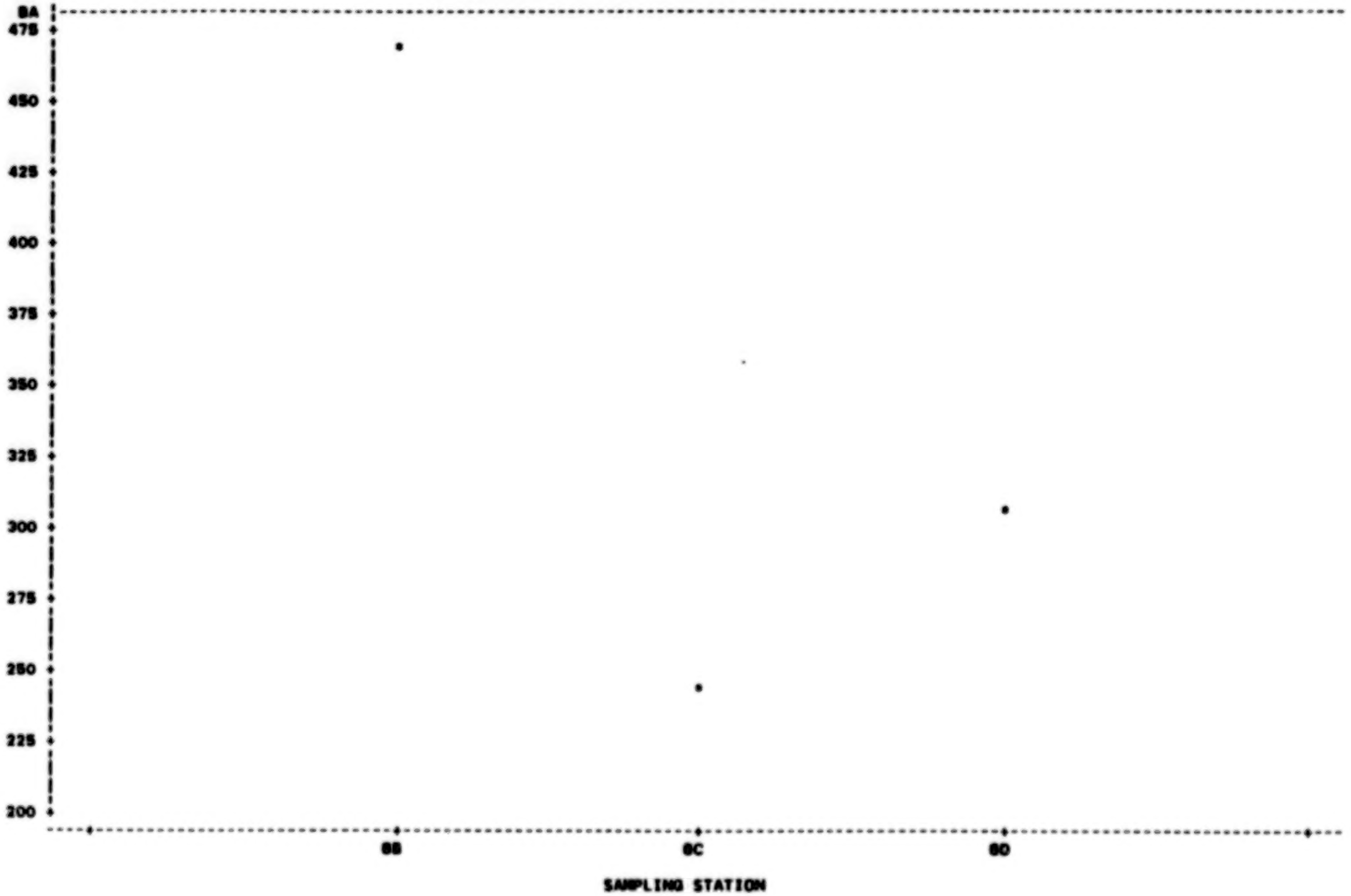
SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 6B,6C,6D,6K DURING YEAR 3
PLOT OF GEOMETRIC MEANS USING STATION 6K AS REFERENCE LINE

PLOT OF LALKTALK*STATID SYMBOL USED IS *



SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 6B,6C,6D,6K DURING YEAR 3
PLOT OF GEOMETRIC MEANS USING STATION 6K AS REFERENCE LINE

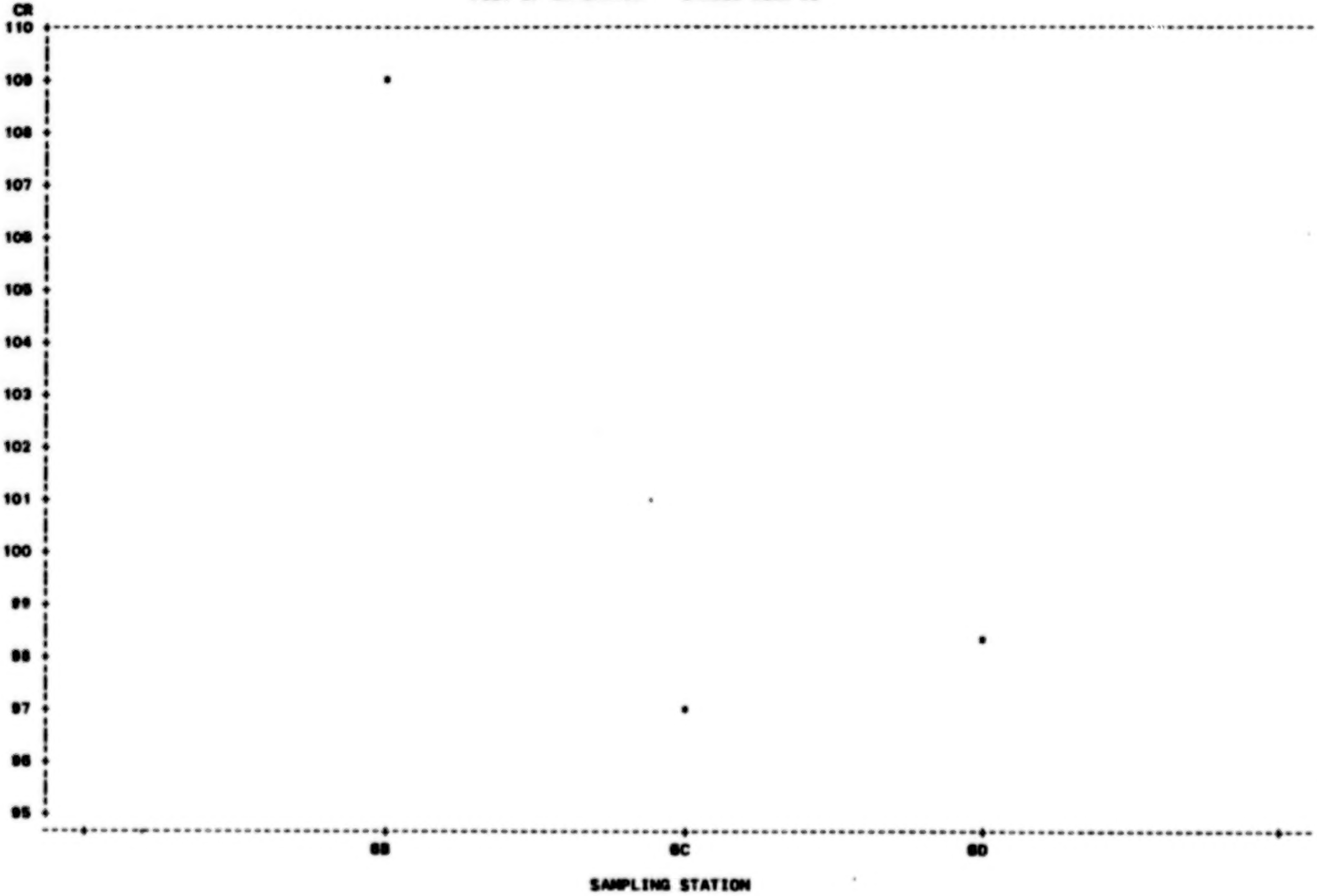
PLOT OF BA*STATID SYMBOL USED IS *



0320

SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 6B,6C,6D,6K DURING YEAR 3
PLOT OF GEOMETRIC MEANS USING STATION 6K AS REFERENCE LINE

PLOT OF CR*STATID SYMBOL USED IS *



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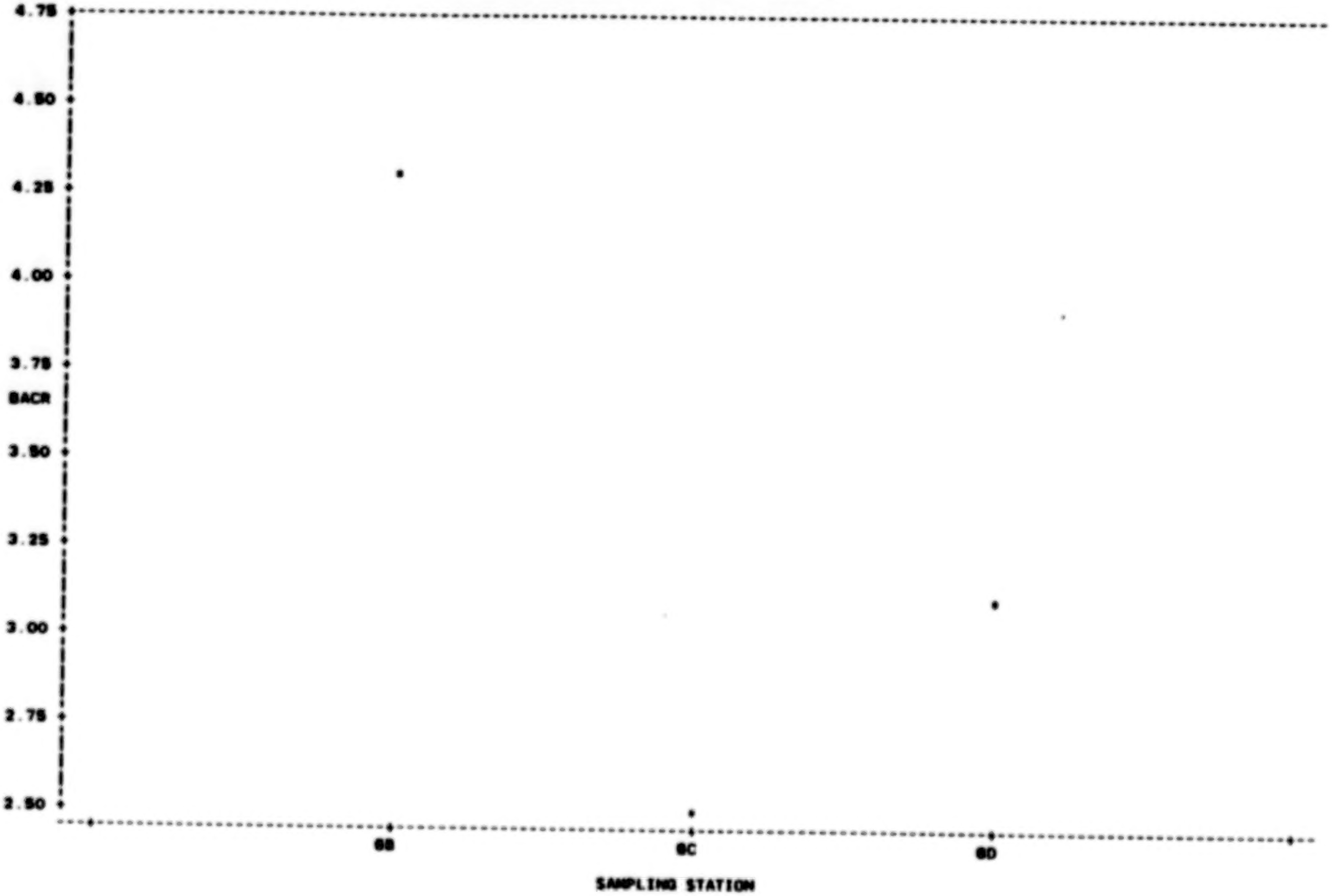
0321

SELECTED HYDROCARBON RATIOS FROM BULK SEDIMENTS AND METAL RATIOS FROM
FROM FINE SEDIMENTS FROM STATIONS 6B,6C,6D,6K DURING YEAR 3
PLOT OF GEOMETRIC MEANS USING STATION 6K AS REFERENCE LINE

PLOT OF BACR*STATID   SYMBOL USED IS *



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SECTION 8

TRACE METAL AND HYDROCARBON DATA FOR ANIMAL TISSUES, LISTED BY SPECIES

```
                    BEAUFORT SEA MONITORING PROGRAM-- TISSUE ANALYSES DATA                         1
                                    METAL  CONCENTRATIONS

------------------------------------------ SPECIES=AMPHIPODS ------------------------------------------

          STATION    YEAR    SAMPLE    REP    BA    CD    CR    CU    PB    V    ZN    BA/CR    BA/V

            1A        3       FD02      1     .     .     .     .     .     .    .       .        .
            1A        3       FD02      2     .     .     .     .     .     .    .       .        .
            1A        3       FD02      3     .     .     .     .     .     .    .       .        .
            1B        3       FD07      1     .     .     .     .     .     .    .       .        .
            1B        3       FD07      2     .     .     .     .     .     .    .       .        .
            1B        3       FD07      3     .     .     .     .     .     .    .       .        .

------------------------------------------ SPECIES=ANONYX ---------------------------------------------

     STATION    YEAR    SAMPLE    REP    BA    CD      CR      CU     PB      V     ZN    BA/CR    BA/V

        1E        2      AJ03      1     35    0.73    3.04    89    0.42    3.8    0     11.5      9.2
        2F        2      I43       .     36    0.45    1.95    78    0.00    0.0    0     18.5       .
        2F        2      I43       .     36    0.49    2.42    78    0.00    1.2    0     14.9     30.0
        2F        2      I43       .     36    0.78    2.22    79    0.00    0.9    0     16.2     40.0
        2F        2      I43       .     35    0.81    1.62    74    0.00    0.0    0     21.6       .
        3A        2      I30       .     21    1.53    0.98   178    0.00    0.7    0     21.4     30.0
        3A        2      I30       .     21    1.53    1.78   182    0.00    0.0    0     11.8       .
        3A        2      I30       .     23    1.53    0.88   185    0.00    0.4    0     26.1     57.5
        3A        2      I30       .     23    1.53    0.91   180    0.00    0.7    0     25.3     32.9
        4B        2      AI05      1     22    0.89    0.50   138    0.00    0.0    0     44.0       .
        5H        2      J24       .     25    0.63    2.78   132    0.00    1.3    0      9.0     19.2
        5H        2      J24       .     16    1.87    0.85   127    0.00    0.0    0     18.8       .
        5H        2      J24       .     23    1.77    1.69   130    0.00    1.2    0     13.6     19.2
        5H        2      J24       .     28    1.15    2.58   127    0.00    2.3    0     10.9     12.2
        5H        3      FD17      0      .     .       .      .      .      .     .       .        .
        6G        2      AH85      1     60    0.27    1.49    63    0.19    0.7    0     40.3     85.7
        6G        2      AH85      2     61    0.18    1.57    69    0.17    0.7    0     38.9     87.1
        6G        2      AH85      3     60    0.27    1.47    67    0.31    0.5    0     40.8      120
        6G        2      AH85      4     58    0.27    1.56    67    0.18    1.0    0     37.2     58.0
        7B        3      FD10      1      .     .       .      .      .      .     .       .        .
        7B        3      FD10      2      .     .       .      .      .      .     .       .        .
        7B        3      FD10      3      .     .       .      .      .      .     .       .        .
        7C        2      AH49      1     30    0.72    2.71   149    0.00    1.9    0     11.1     15.8
        7C        3      FD09      0      .     .       .      .      .      .     .       .        .
        7E        2      AH14      1     52    0.27    0.77    99    0.00    0.4    0     67.5      130
        7E        3      FD11      1      .     .       .      .      .      .     .       .        .
        7E        3      FD11      2      .     .       .      .      .      .     .       .        .
        7E        3      FD11      3      .     .       .      .      .      .     .       .        .
        7E        3      FD11      4      .     .       .      .      .      .     .       .        .
```

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BEAUFORT SEA MONITORING PROGRAM-- TISSUE ANALYSES DATA
METAL CONCENTRATIONS

SPECIES=ASTARTE

STATION	YEAR	SAMPLE	REP	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V
1A	2	AI94	1	23	23.89	2.72	13	0.37	2.5	0	8.1	8.8
1A	3	FD04	0	.	.	.	.	.	.	.	.	.
1B	3	FD08	1	.	.	.	.	.	.	.	.	.
1B	3	FD08	2	.	.	.	.	.	.	.	.	.
1B	3	FD08	3	.	.	.	.	.	.	.	.	.
2F	3	FD01	1	.	.	.	.	.	.	.	.	.
2F	3	FD01	2	.	.	.	.	.	.	.	.	.
2F	3	FD01	3	.	.	.	.	.	.	.	.	.
2F	3	FD01	4	.	.	.	.	.	.	.	.	.
3A	1	210	1	7	0.59	1.50	10	.	1.4	0	4.5	4.9
3A	2	AI32	1	17	5.88	2.59	15	0.28	4.2	0	6.6	4.0
3A	3	FD15	1	10	8.50	2.43	12	0.52	1.8	0	4.2	5.7
3A	3	FD15	2	12	8.80	2.40	11	0.48	2.5	0	5.0	4.7
3A	3	FD15	3	13	10.50	2.16	12	0.46	2.1	0	6.1	6.3
3A	3	FD15	4	.	.	.	.	.	.	.	.	.
5H	2	AJ58	1	24	8.55	1.40	11	0.00	1.4	0	17.1	17.1
5H	2	AJ58	2	22	10.33	1.67	9	0.17	1.6	0	13.2	13.8
5H	2	AJ58	3	12	11.68	1.47	13	0.00	1.1	0	8.2	10.9
5H	2	AJ58	4	11	16.38	2.19	11	0.26	0.8	0	5.0	13.8
5H	3	FD16	1	.	.	.	.	.	.	.	.	.
5H	3	FD16	2	.	.	.	.	.	.	.	.	.
5H	3	FD16	3	.	.	.	.	.	.	.	.	.
5I	3	FD18	1	.	.	.	.	.	.	.	.	.
5I	3	FD18	2	.	.	.	.	.	.	.	.	.
6D	1	210	1	26	0.73	2.50	28	.	5.0	0	10.4	5.2
6D	1	210	2	26	0.73	2.80	28	.	5.0	0	9.3	5.2
6D	1	210	3	37	0.94	2.60	27	.	5.8	0	14.2	6.4
6D	1	210	4	.	.	.	.	.	.	.	.	.
6D	2	AH05	1	39	11.73	3.49	30	1.31	9.4	0	11.2	4.1
6D	3	FD13	1	29	12.90	3.19	26	0.82	6.0	0	9.1	4.8
6D	3	FD13	2	36	12.50	3.98	24	0.92	7.0	0	9.0	5.1
6D	3	FD13	3	34	12.80	4.23	27	1.00	8.1	0	8.1	4.2

SPECIES=CYRTODARIA

STATION	YEAR	SAMPLE	REP	BA	CD	CR	CU	PB	V	ZN	BA/CR	BA/V
5F	1	230	1	13	0.50	1.80	16	.	2.9	0	7.2	4.5
5F	1	230	2	17	0.38	2.50	.	.	3.8	0	6.8	4.5
5F	1	230	3	16	0.50	2.20	18	.	3.1	0	7.3	5.2
5F	1	230	4	13	0.42	1.50	18	.	2.4	0	8.7	5.4
5F	1	230	5	25	0.59	2.90	15	.	4.5	0	8.6	5.6
5F	2	AH15	1	26	1.62	2.03	26	0.50	6.9	0	12.8	3.8
5F	2	AH15	2	21	1.53	3.18	23	0.37	4.9	0	6.6	4.3
5F	2	AH15	3	33	1.35	2.81	24	0.72	8.2	0	11.7	4.0
5F	2	AH15	4	22	1.44	3.56	24	0.48	6.1	0	6.2	3.6
5F	3	FD14	1	20	1.57	2.83	14	0.88	5.2	0	7.1	3.8
5F	3	FD14	2	19	1.45	2.85	14	0.71	4.9	0	6.6	3.8
5F	3	FD14	3	17	1.59	2.37	14	0.60	4.3	0	7.1	3.9
5F	3	FD14	4	.	.	.	.	.	.	.	.	.
6G	2	AH16	1	25	1.53	1.86	21	0.62	5.3	0	13.4	4.7
6G	3	FD12	1	.	.	.	.	.	.	.	.	.

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                    BEAUFORT SEA MONITORING PROGRAM-- TISSUE ANALYSES DATA
                                   METAL  CONCENTRATIONS

------------------------------------------------ SPECIES=CYRTODARIA ------------------------------------------------

                  STATION     YEAR     SAMPLE     REP     BA     CD     CR     CU     PB     V     ZN     BA/CR     BA/V

                    6G          3       FD12       2       .      .      .      .      .     .      .        .         .
                    6G          3       FD12       3       .      .      .      .      .     .      .        .         .
                    6G          3       FD12       4       .      .      .      .      .     .      .        .         .

------------------------------------------------ SPECIES=MACOMA ------------------------------------------------

             STATION     YEAR     SAMPLE     REP     BA      CD       CR      CU     PB       V      ZN     BA/CR     BA/V

               6D          1       230        1       .       .        .       .      .        .       .       .         .
               6D          1       220        2       .       .        .       .      .        .       .       .         .
               6D          2       AH08       1      126     0.30     9.79     18    3.24     21.8     0      12.9      5.8
               6D          2       AH08       2       95    17.75     7.64     19    2.73     19.0     0      12.4      5.0

------------------------------------------------ SPECIES=PORTLANDIA ------------------------------------------------

             STATION     YEAR     SAMPLE     REP     BA     CD       CR      CU     PB       V      ZN     BA/CR     BA/V

               1A          2       AJ04       1       96    7.30    12.22     34    4.89     22.3     0       7.9      4.3
               1A          2       AJ04       2       98    7.93    11.99     35    5.14     22.1     0       8.2      4.4
               1A          2       AJ04       3      102    8.95    13.29     35    8.49     23.3     0       7.7      4.4
               1A          2       AJ04       4       97    8.31    12.55     37    5.75     23.1     0       7.7      4.2
               1A          3       FD03       1       .      .        .       .      .        .       .       .         .
               1A          3       FD03       2       .      .        .       .      .        .       .       .         .
               1A          3       FD03       3       .      .        .       .      .        .       .       .         .
               1A          3       FD03       4       .      .        .       .      .        .       .       .         .
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BEAUFORT SEA MONITORING PROGRAM-- TISSUE ANALYSES DATA
HYDROCARBON CONCENTRATIONS

SPECIES=AMPHIPODS

STATION	YEAR	SAMPLE	REP	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
1A	3	FD02	1	0.008	0.000	0.0000	0.000	0.000	0	0.72	0.32	2.88	3.2
1A	3	FD02	2	0.017	0.000	0.0000	0.000	0.000	0	0.86	0.25	2.13	3.6
1A	3	FD02	3	0.018	0.000	0.0000	0.000	0.000	0	0.98	0.36	5.70	8.7
1B	3	FD07	1	0.001	0.000	0.0000	0.000	0.000	0	3.88	0.12	1.19	4.3
1B	3	FD07	2	0.000	0.000	0.0000	0.000	0.000	0	3.32	0.10	1.52	4.6
1B	3	FD07	3	0.007	0.000	0.0000	0.000	0.000	0	4.65	0.38	0.69	4.6

SPECIES=ANONYX

STATION	YEAR	SAMPLE	REP	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
1E	2	AJ03	1	0.029	0.000	0.0000	0.000	0.000	0	1.23	1.83	9.49	42.6
2F	2	I43	.	.	.	.	.	.	.	.	.	.	.
2F	2	I43	.	.	.	.	.	.	.	.	.	.	.
2F	2	I43	.	.	.	.	.	.	.	.	.	.	.
2F	2	I43	.	.	.	.	.	.	.	.	.	.	.
3A	2	I30	.	.	.	.	.	.	.	.	.	.	.
3A	2	I30	.	.	.	.	.	.	.	.	.	.	.
3A	2	I30	.	.	.	.	.	.	.	.	.	.	.
3A	2	I30	.	.	.	.	.	.	.	.	.	.	.
4B	2	AI05	1	0.015	0.000	0.0000	0.000	0.001	0	1.30	0.65	9.14	78.3
5H	2	J24	.	.	.	.	.	.	.	.	.	.	.
5H	2	J24	.	.	.	.	.	.	.	.	.	.	.
5H	2	J24	.	.	.	.	.	.	.	.	.	.	.
5H	2	J24	.	.	.	.	.	.	.	.	.	.	.
5H	3	FD17	0	0.000	0.000	0.0000	0.000	0.000	0	7.98	0.33	0.88	24.2
6G	2	AH85	1	0.012	0.000	0.0020	0.000	0.000	0	12.63	1.39	1.93	17.6
6G	2	AH85	2	0.009	0.000	0.0000	0.000	0.000	0	12.04	1.46	2.64	18.0
6G	2	AH85	3	0.000	0.000	0.0000	0.000	0.000	0	12.97	1.37	2.58	22.2
6G	2	AH85	4	0.015	0.000	0.0010	0.000	0.000	0	10.53	1.95	2.47	15.4
7B	3	FD10	1	0.000	0.000	0.0000	0.000	0.000	0	0.42	0.09	0.55	1.4
7B	3	FD10	2	0.000	0.000	0.0000	0.000	0.000	0	0.26	0.05	1.40	4.5
7B	3	FD10	3	0.018	0.000	0.0002	0.000	0.000	0	0.41	0.12	0.28	0.4
7C	2	AH49	1	0.004	0.000	0.0000	0.000	0.000	0	20.69	3.01	6.55	39.6
7C	3	FD09	0	0.000	0.000	0.0000	0.000	0.000	0	0.57	0.42	0.96	30.3
7E	2	AH14	1	0.008	0.000	0.0010	0.000	0.000	0	32.23	3.78	6.04	50.9
7E	3	FD11	1	0.018	0.000	0.0000	0.000	0.032	0	0.73	0.24	1.46	2.0
7E	3	FD11	2	0.007	0.000	0.0000	0.000	0.000	0	0.79	0.19	1.29	2.3
7E	3	FD11	3	0.012	0.000	0.0000	0.000	0.000	0	0.76	0.20	0.78	1.9
7E	3	FD11	4	0.013	0.000	0.0000	0.000	0.000	0	0.42	0.13	0.52	0.9

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BEAUFORT SEA MONITORING PROGRAM-- TISSUE ANALYSES DATA
HYDROCARBON CONCENTRATIONS

SPECIES=ASTARTE

STATION	YEAR	SAMPLE	REP	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
1A	2	AI94	1	0.014	0.014	0.0050	0.002	0.007	0	0.09	2.66	4.98	10.3
1A	3	FD04	0	0.010	0.000	0.0000	0.000	0.002	0	0.02	0.29	1.05	2.1
1B	3	FD08	1	0.014	0.000	0.0000	0.000	0.000	0	0.01	0.10	0.83	1.3
1B	3	FD08	2	0.000	0.000	0.0000	0.000	0.000	0	0.02	0.10	0.90	2.0
1B	3	FD08	3	0.000	0.000	0.0000	0.000	0.000	0	0.01	0.02	0.58	1.6
2F	3	FD01	1	0.008	0.000	0.0010	0.000	0.000	0	11.93	0.18	3.22	34.1
2F	3	FD01	2	0.010	0.000	0.0010	0.000	0.000	0	4.28	0.17	0.51	5.9
2F	3	FD01	3	0.004	0.000	0.0000	0.000	0.000	0	0.24	0.19	1.15	12.3
2F	3	FD01	4	0.009	0.000	0.0000	0.155	0.000	0	3.70	0.24	1.83	5.9
3A	1	210	1	0.000	0.000	0.0000	0.000	0.000	0	0.00	0.32	7.38	72.9
3A	2	AI32	1	0.003	0.002	0.0030	0.000	0.001	0	0.09	2.02	3.44	7.8
3A	3	FD15	1	0.000	0.000	0.0010	0.000	0.031	0	0.00	0.03	0.68	1.0
3A	3	FD15	2	0.002	0.000	0.0000	0.000	0.002	0	0.00	0.03	3.75	5.1
3A	3	FD15	3	0.000	0.000	0.0000	0.000	0.000	0	0.00	0.08	0.98	1.5
3A	3	FD15	4	0.007	0.000	0.0000	0.000	0.002	0	0.05	0.07	0.28	0.3
5H	2	AJ58	1	0.001	0.001	0.0010	0.000	0.001	0	0.00	0.21	0.82	2.0
5H	2	AJ58	2	0.001	0.002	0.0000	0.000	0.001	0	0.00	0.22	0.58	2.0
5H	2	AJ58	3	0.008	0.003	0.0020	0.000	0.004	0	0.04	0.27	7.17	11.4
5H	2	AJ58	4	0.001	0.003	0.0040	0.000	0.002	0	0.03	0.22	0.84	2.1
5H	3	FD16	1	0.008	0.000	0.0000	0.000	0.000	0	0.00	10.08	12.87	7.7
5H	3	FD16	2	0.001	0.000	0.0020	0.000	0.000	0	0.02	0.14	1.93	16.0
5H	3	FD16	3	0.005	0.000	0.0000	0.000	0.003	0	0.01	0.09	1.05	7.4
51	3	FD18	1	0.003	0.000	0.0000	0.000	0.000	0	0.01	0.10	1.87	8.8
51	3	FD18	2	0.019	0.000	0.0000	0.000	0.001	0	0.03	0.10	0.54	0.7
6D	1	210	1	0.000	0.000	0.0000	0.000	0.000	0	0.00	1.70	28.24	113.3
6D	1	210	2	0.000	0.000	0.0000	0.000	0.000	0	0.00	1.31	2.11	81.4
6D	1	210	3	0.000	0.000	0.0000	0.000	0.000	0	0.00	0.78	4.05	28.5
6D	1	210	4	0.000	0.000	0.0000	0.000	0.000	0	0.02	3.27	4.58	92.4
6D	2	AH05	1	0.007	0.002	0.0040	0.002	0.019	0	0.02	0.52	1.19	4.0
6D	3	FD13	1	0.025	0.000	0.0000	0.000	0.000	0	0.05	0.12	0.83	0.8
6D	3	FD13	2	0.012	0.000	0.0020	0.000	0.004	0	0.04	0.08	1.23	1.7
6D	3	FD13	3	0.005	0.000	0.0010	0.000	0.000	0	0.05	0.09	0.58	1.2

SPECIES=CYRTODARIA

STATION	YEAR	SAMPLE	REP	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
5F	1	230	1	0.000	0.000	0.0000	0.000	0.000	0	0.00	0.41	1.27	30.7
5F	1	230	2	0.000	0.000	0.0020	0.000	0.000	0	0.00	0.01	0.89	12.5
5F	1	230	3	0.000	0.000	0.0000	0.000	0.000	0	0.00	0.34	0.77	35.6
5F	1	230	4	0.000	0.005	0.0000	0.000	0.000	0	0.00	0.03	0.25	89.1
5F	1	230	5	0.000	0.000	0.0010	0.000	0.000	0	0.00	0.30	453.1	20.8
5F	2	AH15	1	0.003	0.000	0.0030	0.000	0.002	0	0.01	0.31	0.82	2.8
5F	2	AH15	2	0.002	0.000	0.0020	0.000	0.003	0	0.01	0.33	1.57	7.7
5F	2	AH15	3	0.003	0.001	0.0030	0.000	0.003	0	0.04	0.33	11.28	61.2
5F	2	AH15	4	0.002	0.001	0.0010	0.000	0.001	0	0.02	0.37	1.22	6.4
5F	3	FD14	1	0.028	0.001	0.0130	0.005	0.008	0	0.02	0.04	1.04	8.0
5F	3	FD14	2	0.010	0.002	0.0110	0.002	0.011	0	0.03	0.10	0.47	10.8
5F	3	FD14	3	0.007	0.003	0.0160	0.005	0.003	0	0.03	0.10	0.83	13.5
5F	3	FD14	4	0.018	0.000	0.0000	0.000	0.000	0	0.02	0.18	0.78	1.2
6G	2	AH16	1	0.004	0.000	0.0050	0.000	0.005	0	0.09	1.23	2.96	19.3
6G	3	FD12	1	0.003	0.000	0.0030	0.000	0.005	0	0.01	0.04	0.44	0.1

BEAUFORT SEA MONITORING PROGRAM-- TISSUE ANALYSES DATA
HYDROCARBON CONCENTRATIONS

SPECIES=CYRTODARIA

STATION	YEAR	SAMPLE	REP	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
6G	3	FD12	2	0.010	0.000	0.0070	0.000	0.009	0	0.01	0.03	0.58	2.1
6G	3	FD12	3	0.008	0.000	0.0040	0.000	0.000	0	0.02	0.10	0.63	1.2
6G	3	FD12	4	0.000	0.000	0.0000	0.000	0.000	0	0.00	0.10	0.50	0.7

SPECIES=MACOMA

STATION	YEAR	SAMPLE	REP	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
6D	1	220	1	26.370	4.589	5.7950	1.194	0.021	0	0.00	0.30	2.93	36.8
6D	1	220	2	0.000	0.000	0.0000	0.000	0.000	0	0.02	1.04	13.71	48.6
6D	2	AH06	1	0.008	0.000	0.0000	0.000	0.002	0	0.04	0.30	1.64	4.6
6D	2	AH06	2	0.084	0.051	0.0040	0.002	0.013	0	0.15	1.20	24.02	82.1

SPECIES=PORTLANDIA

STATION	YEAR	SAMPLE	REP	N	F	P	D	PAH	PHYTANE	PRISTANE	LALK	TALK	TOT
1A	2	AJ04	1	0.010	0.007	0.0100	0.000	0.000	0	0.05	0.17	1.78	8.2
1A	2	AJ04	2	0.009	0.001	0.0100	0.002	0.048	0	0.05	0.28	5.80	11.6
1A	2	AJ04	3	0.010	0.004	0.0130	0.001	0.008	0	0.00	0.18	2.14	7.9
1A	2	AJ04	4	0.009	0.000	0.0050	0.000	0.007	0	0.07	0.81	17.45	119.3
1A	3	FD03	1	0.027	0.000	0.0030	0.000	0.000	0	0.05	0.21	3.12	8.7
1A	3	FD03	2	0.027	0.000	0.0100	0.000	0.008	0	0.05	0.20	2.95	13.8
1A	3	FD03	3	0.000	0.000	0.0000	0.000	0.000	0	0.05	0.21	3.82	13.5
1A	3	FD03	4	0.008	0.000	0.0000	0.000	0.000	0	0.05	0.18	2.65	4.2

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BEAUFORT SEA MONITORING PROGRAM-- TISSUE ANALYSES DATA
RATIO VARIABLES

-- SPECIES=AMPHIPODS --

STATION	YEAR	SAMPLE	REP	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D
1A	3	FD02	1	.	3.9	0.12	.	.	.
1A	3	FD02	2	.	5.2	0.12	.	.	.
1A	3	FD02	3	.	4.4	0.08	.	.	.
1B	3	FD07	1	.	45.1	0.10	.	.	.
1B	3	FD07	2	.	48.3	0.08	.	.	.
1B	3	FD07	3	.	18.7	0.56	.	.	.

-- SPECIES=ANONYX --

STATION	YEAR	SAMPLE	REP	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D
1E	2	AJ03	1	.	1.8	0.19	.	.	.
2F	2	I43	.	.	.	.	.	.	.
2F	2	I43	.	.	.	.	.	.	.
2F	2	I43	.	.	.	.	.	.	.
2F	2	I43	.	.	.	.	.	.	.
3A	2	I30	.	.	.	.	.	.	.
3A	2	I30	.	.	.	.	.	.	.
3A	2	I30	.	.	.	.	.	.	.
3A	2	I30	.	.	.	.	.	.	.
4B	2	AI05	1	84	5.3	0.07	.	.	.
5H	2	J24	.	.	.	.	.	.	.
5H	2	J24	.	.	.	.	.	.	.
5H	2	J24	.	.	.	.	.	.	.
5H	2	J24	.	.	.	.	.	.	.
5H	3	FD17	0	.	29.7	0.39	.	.	.
6G	2	AH85	1	.	10.5	0.72	.	8.0	.
6G	2	AH85	2	.	9.5	0.96	.	.	.
6G	2	AH85	3	.	10.9	0.53	.	.	.
6G	2	AH85	4	.	8.9	0.79	.	15.0	.
7B	3	FD10	1	.	8.0	0.17	.	.	.
7B	3	FD10	2	.	8.4	0.04	.	.	.
7B	3	FD10	3	.	8.1	0.42	.	91.5	.
7C	2	AH49	1	.	8.1	0.48	.	.	.
7C	3	FD09	0	.	11.9	0.43	.	.	.
7E	2	AH14	1	.	9.8	0.63	.	8.0	.
7E	3	FD11	1	38	5.0	0.17	.	.	.
7E	3	FD11	2	.	6.5	0.15	.	.	.
7E	3	FD11	3	.	5.5	0.25	.	.	.
7E	3	FD11	4	.	5.8	0.28	.	.	.

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RATIO VARIABLES

SPECIES=ASTARTE

STATION	YEAR	SAMPLE	REP	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D
1A	2	AI04	1	83	0.3	0.54	.	2.8	2.5
1A	3	FD04	0	83	0.2	0.28	.	.	.
1B	3	FD08	1	.	0.3	0.15	.	.	.
1B	3	FD08	2	.	0.3	0.11	.	.	.
1B	3	FD08	3	.	0.7	0.04	.	.	.
2F	3	FD01	1	.	111.2	0.06	.	6.0	.
2F	3	FD01	2	.	42.4	0.34	.	10.0	.
2F	3	FD01	3	.	2.4	0.17	.	.	.
2F	3	FD01	4	.	27.5	0.15	.	.	0.0
3A	1	210	1	.	0.0	0.04	.	.	.
3A	2	AI32	1	89	0.3	0.58	.	1.0	.
3A	3	FD15	1	3	0.6	0.05	.	0.0	.
3A	3	FD15	2	50	.	0.01	.	.	.
3A	3	FD15	3	.	0.0	0.07	.	.	.
3A	3	FD15	4	79	1.8	0.27	.	.	.
5H	2	AJ58	1	75	0.2	0.35	.	1.0	.
5H	2	AJ58	2	75	0.1	0.38	.	.	.
5H	2	AJ58	3	73	0.5	0.04	.	3.0	.
5H	2	AJ58	4	80	0.4	0.34	.	0.3	.
5H	3	FD16	1	.	0.7	0.80	.	.	.
5H	3	FD16	2	.	0.6	0.07	.	0.5	.
5H	3	FD16	3	63	1.3	0.08	.	.	.
5I	3	FD18	1	.	2.4	0.06	.	.	.
5I	3	FD18	2	96	0.9	0.19	.	.	.
6D	1	210	1	.	0.0	0.08	.	.	.
6D	1	210	2	.	0.0	0.82	.	.	.
6D	1	210	3	.	0.2	0.19	.	.	.
6D	1	210	4	.	0.2	0.71	.	.	.
6D	2	AH05	1	44	0.4	0.44	.	1.8	2.0
6D	3	FD13	1	.	0.8	0.19	.	.	.
6D	3	FD13	2	78	1.1	0.06	.	6.0	.
6D	3	FD13	3	.	0.9	0.15	.	5.0	.

SPECIES=CYRTODARIA

STATION	YEAR	SAMPLE	REP	FFPI	ISO/ALK	LALK/TALK	PRIS/PHYT	N/P	P/D
5F	1	230	1	.	0.0	0.32	.	.	.
5F	1	230	2	.	0.0	0.02	.	0.0	.
5F	1	230	3	.	0.0	0.44	.	.	.
5F	1	230	4	.	0.0	0.12	.	.	.
5F	1	230	5	.	0.0	0.00	.	0.0	.
5F	2	AH15	1	75	0.3	0.50	.	1.0	.
5F	2	AH15	2	57	0.3	0.21	.	1.0	.
5F	2	AH15	3	70	0.6	0.03	.	1.0	.
5F	2	AH15	4	80	0.3	0.30	.	2.0	.
5F	3	FD14	1	85	1.4	0.04	.	2.2	2.8
5F	3	FD14	2	69	1.2	0.22	.	0.9	5.5
5F	3	FD14	3	91	2.2	0.16	.	0.4	3.2
5F	3	FD14	4	.	0.9	0.21	.	.	.
6G	2	AH16	1	64	0.8	0.42	.	0.8	.
6G	3	FD12	1	55	0.5	0.09	.	1.0	.

```
                         BEAUFORT SEA MONITORING PROGRAM-- TISSUE ANALYSES DATA                                9
                                              RATIO VARIABLES

------------------------------------------------- SPECIES=CYRTODARIA -------------------------------------------------

        STATION     YEAR     SAMPLE     REP     FFPI     ISO/ALK     LALK/TALK     PRIS/PHYT     N/P     P/D

          6G          3       FD12       2       65        2.2         0.05            .         1.4      .
          6G          3       FD12       3        .        0.3         0.17            .         1.5      .
          6G          3       FD12       4        .        0.3         0.20            .          .       .

--------------------------------------------------- SPECIES=MACOMA ---------------------------------------------------

        STATION     YEAR     SAMPLE     REP     FFPI     ISO/ALK     LALK/TALK     PRIS/PHYT     N/P      P/D

          6D          1       220        1      100         .          0.10            .          4.6     4.9
          6D          1       220        2        .        0.2         0.08            .           .       .
          6D          2       AH06       1       75        0.4         0.18            .           .       .
          6D          2       AH06       2       90        1.0         0.05            .         18.0     2.0

------------------------------------------------- SPECIES=PORTLANDIA -------------------------------------------------

        STATION     YEAR     SAMPLE     REP     FFPI     ISO/ALK     LALK/TALK     PRIS/PHYT     N/P     P/D

          1A          2       AJ04       1        .        0.8         0.10            .         1.0      .
          1A          2       AJ04       2       31        0.8         0.05            .         0.9      5.0
          1A          2       AJ04       3       78        0.4         0.07            .         0.8     13.0
          1A          2       AJ04       4       67        0.8         0.03            .         1.8      .
          1A          3       FD03       1        .        0.7         0.07            .         9.0      .
          1A          3       FD03       2       82        0.8         0.07            .         2.7      .
          1A          3       FD03       3        .        0.8         0.05            .          .       .
          1A          3       FD03       4        .        0.9         0.08            .          .       .
```

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SECTION [illegible]

GEOMETRIC MEANS AND PERCENT STANDARD ERRORS FOR ALL ANALYTE CONCENTRATIONS FOR WHICH THERE WERE AT LEAST TWO YEARS OF DATA FOR EACH ORGANISM AT A GIVEN LOCATION

BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
DESCRIPTIVE STATISTICS BY SPECIES AND STATION

--- SPECIES=ANONYX STATION=7C ---

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
BA	1	30		0	
CD	1	0.72		0.00	
CR	1	2.71		0.00	
CU	1	149		0	
PB	1	0.00		0.00	
V	1	1.9		0.0	
ZN	1	0		0	
N	2	0.001	6.40	0.000	0.024
F	2	0.000	1.00	0.000	0.000
P	2	0.000	1.00	0.000	0.000
D	2	0.000	1.00	0.000	0.000
PAH	2	0.000	1.00	0.000	0.000
PHYT	2	0	1.00	0	0
PRIS	2	3.42	6.05	0.10	116.39
LALK	2	1.12	2.69	0.16	7.81
TALK	2	2.51	2.61	0.38	16.43
TOT	2	34.7	1.15	26.6	45.4
FFPI	0			0	
ISO/ALK	2	9.8	1.22	6.7	14.4
LALK/TAL	2	0.45	1.03	0.42	0.48
PRIS/PHY	0			0.0	
N/P	0			0.0	
P/D	0			0.0	
BA/CR	1	11.1		0.0	
BA/V	1	15.8		0.0	

```
                    BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
                         DESCRIPTIVE STATISTICS BY SPECIES AND STATION

------------------------------------- SPECIES=ANONYX STATION=7E ---------------------------------------

 TYPE OF        # NONMISSING   GEOMETRIC    % STD ERR OF   LOWER 95% CONF.   UPPER 95% CONF.
 CONCENTRATION     VALUES         MEAN       GEOM. MEAN    LIMIT FOR G.M.    LIMIT FOR G.M.

   BA                1          52                             0
   CD                1          0.27                           0.00
   CR                1          0.77                           0.00
   CU                1          99                             0
   PB                1          0.00                           0.00
   V                 1          0.4                            0.0
   ZN                1          0                              0
   N                 2          0.010         1.21             0.007            0.014
   F                 2          0.000         1.00             0.000            0.000
   P                 2          0.000         3.32             0.000            0.003
   D                 2          0.000         1.00             0.000            0.000
   PAH               2          0.000         2.06             0.000            0.001
   PHYT              2          0             1.00             0                0
   PRIS              2          4.59          7.02             0.10             209.26
   LALK              2          0.84          4.50             0.04             16.04
   TALK              2          2.37          2.54             0.38             14.79
   TOT               2          9.2           5.55             0.3              263.8
   FFPI              1          36                             0
   ISO/ALK           2          7.3           1.30             4.4              12.4
   LALK/TAL          2          0.35          1.77             0.12             1.08
   PRIS/PHY          0                                         0.0
   N/P               1          8.0                            0.0
   P/D               0                                         0.0
   BA/CR             1          67.5                           0.0
   BA/V              1          130.0                          0.0
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BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
DESCRIPTIVE STATISTICS BY SPECIES AND STATION

---------- SPECIES=ASTARTE STATION=1A ----------

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
BA	1	22		0	
CD	1	23.89		0.00	
CR	1	2.72		0.00	
CU	1	13		0	
PB	1	0.37		0.00	
V	1	2.5		0.0	
ZN	1	0		0	
N	2	0.012	1.18	0.009	0.018
F	2	0.001	11.87	0.000	0.152
P	2	0.001	7.14	0.000	0.034
D	2	0.000	4.58	0.000	0.009
PAH	2	0.004	1.84	0.001	0.013
PHYT	2	0	1.00	0	0
PRIS	2	0.05	2.00	0.01	0.18
LALK	2	0.89	3.00	0.10	7.84
TALK	2	2.28	2.18	0.50	10.48
TOT	2	4.7	2.19	1.0	22.0
FFPI	2	83	1.00	83	83
ISO/ALK	2	0.3	1.13	0.2	0.3
LALK/TAL	2	0.38	1.38	0.21	0.73
PRIS/PHY	0			0.0	
N/P	1	2.8		0.0	
P/D	1	2.5		0.0	
BA/CR	1	8.1		0.0	
BA/V	1	8.8		0.0	

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                   BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
                         DESCRIPTIVE STATISTICS BY SPECIES AND STATION

--------------------------------------------- SPECIES=ASTARTE STATION=3A ---------------------------------------------

      TYPE OF           # NONMISSING     GEOMETRIC     % STD ERR OF     LOWER 95% CONF.     UPPER 95% CONF.
      CONCENTRATION        VALUES          MEAN         GEOM. MEAN      LIMIT FOR G.M.      LIMIT FOR G.M.

        BA                   3             11              1.30            7                   19
        CD                   3             3.13            2.34            0.59                16.55
        CR                   3             2.08            1.18            1.50                2.89
        CU                   3             12              1.13            9                   15
        PB                   2             0.37            1.32            0.21                0.63
        V                    3             2.3             1.38            1.2                 4.3
        ZN                   3             0               1.00            0                   0
        N                    3             0.000           2.70            0.000               0.004
        F                    3             0.000           2.76            0.000               0.002
        P                    3             0.000           2.88            0.000               0.003
        D                    3             0.000           1.00            0.000               0.000
        PAH                  3             0.000           2.47            0.000               0.003
        PHYT                 3             0               1.00            0                   0
        PRIS                 3             0.00            7.70            0.00                0.09
        LALK                 3             0.31            2.97            0.04                2.62
        TALK                 3             2.83            1.85            0.84                9.48
        TOT                  3             9.0             3.23            0.9                 89.3
        FFPI                 2             45              1.98            12                  170
        ISO/ALK              3             0.0             10.89           0.0                 1.2
        LALK/TAL             3             0.11            2.32            0.02                0.57
        PRIS/PHY             0                                             0.0
        N/P                  2             0.0             100.00          0.0                 83.2
        P/D                  0                                             0.0
        BA/CR                3             5.3             1.12            4.3                 6.6
        BA/V                 3             4.8             1.10            4.0                 5.7
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BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
DESCRIPTIVE STATISTICS BY SPECIES AND STATION

SPECIES=ASTARTE STATION=5H

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
BA	1	16		0	
CD	1	11.40		0.00	
CR	1	1.66		0.00	
CU	1	11		0	
PB	1	0.00		0.00	
V	1	1.2		0.0	
ZN	1	0		0	
N	2	0.002	1.39	0.001	0.004
F	2	0.000	4.66	0.000	0.009
P	2	0.000	1.89	0.000	0.002
D	2	0.000	1.00	0.000	0.000
PAH	2	0.001	2.39	0.000	0.004
PHYT	2	0	1.00	0	0
PRIS	2	0.01	1.01	0.01	0.01
LALK	2	0.34	1.48	0.16	0.74
TALK	2	1.83	1.62	0.71	4.68
TOT	2	5.5	1.76	1.8	16.7
FFPI	2	69	1.10	57	83
ISO/ALK	2	0.4	1.82	0.1	1.5
LALK/TAL	2	0.19	1.09	0.16	0.22
PRIS/PHY	0			0.0	
N/P	2	0.7	1.35	0.4	1.2
P/D	0			0.0	
BA/CR	1	9.8		0.0	
BA/V	1	13.7		0.0	

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BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
DESCRIPTIVE STATISTICS BY SPECIES AND STATION

SPECIES=ASTARTE STATION=8D

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
BA	3	33	1.09	28	39
CD	3	4.92	2.48	0.83	29.28
CR	3	3.26	1.12	2.63	4.04
CU	3	28	1.05	25	30
PB	2	1.09	1.20	0.76	1.56
V	3	7.0	1.18	5.0	9.7
ZN	3	0	1.00	0	0
N	3	0.002	4.52	0.000	0.039
F	3	0.000	2.78	0.000	0.002
P	3	0.001	2.92	0.000	0.005
D	3	0.000	2.78	0.000	0.002
PAH	3	0.001	4.88	0.000	0.019
PHYT	3	0	1.00	0	0
PRIS	3	0.01	4.48	0.00	0.13
LALK	3	0.42	2.27	0.08	2.09
TALK	3	1.73	1.84	0.53	5.66
TOT	3	6.7	3.43	0.6	75.3
FFPI	2	59	1.33	34	102
ISO/ALK	3	0.1	5.20	0.0	2.9
LALK/TAL	3	0.24	1.46	0.12	0.51
PRIS/PHY	0			0.0	
N/P	2	3.1	1.77	1.0	9.5
P/D	1	2.0		0.0	
BA/CR	3	10.3	1.09	8.7	12.1
BA/V	3	4.8	1.09	4.0	5.8

BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
DESCRIPTIVE STATISTICS BY SPECIES AND STATION

-- SPECIES=CYRTODAR STATION=5F --

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
BA	3	20	1.14	15	25
CD	3	1.02	1.47	0.48	2.19
CR	3	2.52	1.09	2.12	3.00
CU	3	18	1.18	13	24
PB	2	0.60	1.20	0.42	0.86
V	3	4.6	1.22	3.2	6.8
ZN	3	0	1.00	0	0
N	3	0.001	4.25	0.000	0.026
F	3	0.000	1.53	0.000	0.001
P	3	0.001	2.18	0.000	0.008
D	3	0.000	2.48	0.000	0.001
PAH	3	0.001	2.82	0.000	0.008
PHYT	3	0	1.00	0	0
PRIS	3	0.00	5.89	0.00	0.11
LALK	3	0.15	1.50	0.07	0.33
TALK	3	1.47	1.48	0.70	3.08
TOT	3	12.1	1.61	4.8	30.7
FFPI	2	76	1.08	65	88
ISO/ALK	3	0.0	19.55	0.0	12.3
LALK/TAL	3	0.10	1.47	0.05	0.22
PRIS/PHY	0			0.0	
N/P	3	0.0	22.00	0.0	20.7
P/D	1	3.6		0.0	
BA/CR	3	7.8	1.07	6.8	8.9
BA/V	3	4.2	1.09	3.6	5.0

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                 BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
                         DESCRIPTIVE STATISTICS BY SPECIES AND STATION

------------------------------------------- SPECIES=CYRTODAR STATION=6G -------------------------------------------

TYPE OF          # NONMISSING     GEOMETRIC     % STD ERR OF     LOWER 95% CONF.     UPPER 95% CONF.
CONCENTRATION       VALUES           MEAN        GEOM. MEAN      LIMIT FOR G.M.      LIMIT FOR G.M.

  BA                  1            25                                 0
  CD                  1            1.53                               0.00
  CR                  1            1.86                               0.00
  CU                  1            21                                 0
  PB                  1            0.62                               0.00
  V                   1            5.3                                0.0
  ZN                  1            0                                  0
  N                   2            0.003           1.40               0.001               0.008
  F                   2            0.000           1.00               0.000               0.000
  P                   2            0.003           1.72               0.001               0.008
  D                   2            0.000           1.00               0.000               0.000
  PAH                 2            0.002           2.49               0.000               0.012
  PHYT                2            0               1.00               0                   0
  PRIS                2            0.02            4.99               0.00                0.43
  LALK                2            0.27            4.62               0.01                5.36
  TALK                2            1.26            2.36               0.23                6.73
  TOT                 2            3.6             5.33               0.1                 96.0
  FFPI                2            62              1.04               58                  67
  ISO/ALK             2            0.7             1.15               0.5                 0.9
  LALK/TAL            2            0.21            1.96               0.06                0.80
  PRIS/PHY            0                                               0.0
  N/P                 2            1.0             1.27               0.8                 1.6
  P/D                 0                                               0.0
  BA/CR               1            13.4                               0.0
  BA/V                1            4.7                                0.0
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                 BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
                        DESCRIPTIVE STATISTICS BY SPECIES AND STATION

------------------------------------------------ SPECIES=MACOMA STATION=6D ------------------------------------------------

      TYPE OF         # NONMISSING    GEOMETRIC    % STD ERR OF    LOWER 95% CONF.    UPPER 95% CONF.
   CONCENTRATION         VALUES          MEAN       GEOM. MEAN     LIMIT FOR G.M.     LIMIT FOR G.M.

       BA                  1            109                           0
       CD                  1            2.31                          0.00
       CR                  1            8.65                          0.00
       CU                  1            18                            0
       PB                  1            2.97                          0.00
       V                   1            20.4                          0.0
       ZN                  1            0                             0
       N                   2            0.032         1.61            0.012              0.081
       F                   2            0.007         3.08            0.001              0.063
       P                   2            0.004         6.13            0.000              0.137
       D                   2            0.002         4.88            0.000              0.050
       PAH                 2            0.003         1.90            0.001              0.010
       PHYT                2            0             1.00            0                  0
       PRIS                2            0.01          7.74            0.00               0.57
       LALK                2            0.58          1.04            0.54               0.62
       TALK                2            6.31          1.00            6.26               6.37
       TOT                 2            28.7          1.47            13.4               61.3
       FFPI                2            91            1.10            75                 110
       ISO/ALK             2            0.3           1.80            0.1                1.1
       LALK/TAL            2            0.09          1.04            0.08               0.10
       PRIS/PHY            0                                          0.0
       N/P                 2            8.5           1.88            2.5                29.3
       P/D                 2            3.1           1.58            1.3                7.4
       BA/CR               1            12.7                          0.0
       BA/V                1            5.4                           0.0
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BEAUFORT SEA MONITORING PROGRAM-- TISSUE CONCENTRATION DATA
DESCRIPTIVE STATISTICS BY SPECIES AND STATION

SPECIES=PORTLAND STATION=1A

TYPE OF CONCENTRATION	# NONMISSING VALUES	GEOMETRIC MEAN	% STD ERR OF GEOM. MEAN	LOWER 95% CONF. LIMIT FOR G.M.	UPPER 95% CONF. LIMIT FOR G.M.
BA	1	98		0	
CD	1	7.60		0.00	
CR	1	12.50		0.00	
CU	1	35		0	
PB	1	5.53		0.00	
V	1	22.7		0.0	
ZN	1	0		0	
N	2	0.007	1.40	0.003	0.013
F	2	0.000	3.66	0.000	0.005
P	2	0.003	3.49	0.000	0.030
D	2	0.000	1.97	0.000	0.001
PAH	2	0.001	3.69	0.000	0.014
PHYT	2	0	1.00	0	0
PRIS	2	0.04	1.37	0.02	0.07
LALK	2	0.22	1.16	0.17	0.30
TALK	2	3.71	1.19	2.62	5.25
TOT	2	11.7	1.38	6.2	21.9
FFPI	2	67	1.23	45	100
ISO/ALK	2	0.7	1.06	0.6	0.9
LALK/TAL	2	0.06	1.03	0.06	0.06
PRIS/PHY	0			0.0	
N/P	2	2.3	2.16	0.5	10.3
P/D	1	8.1		0.0	
BA/CR	1	7.9		0.0	
BA/V	1	4.3		0.0	

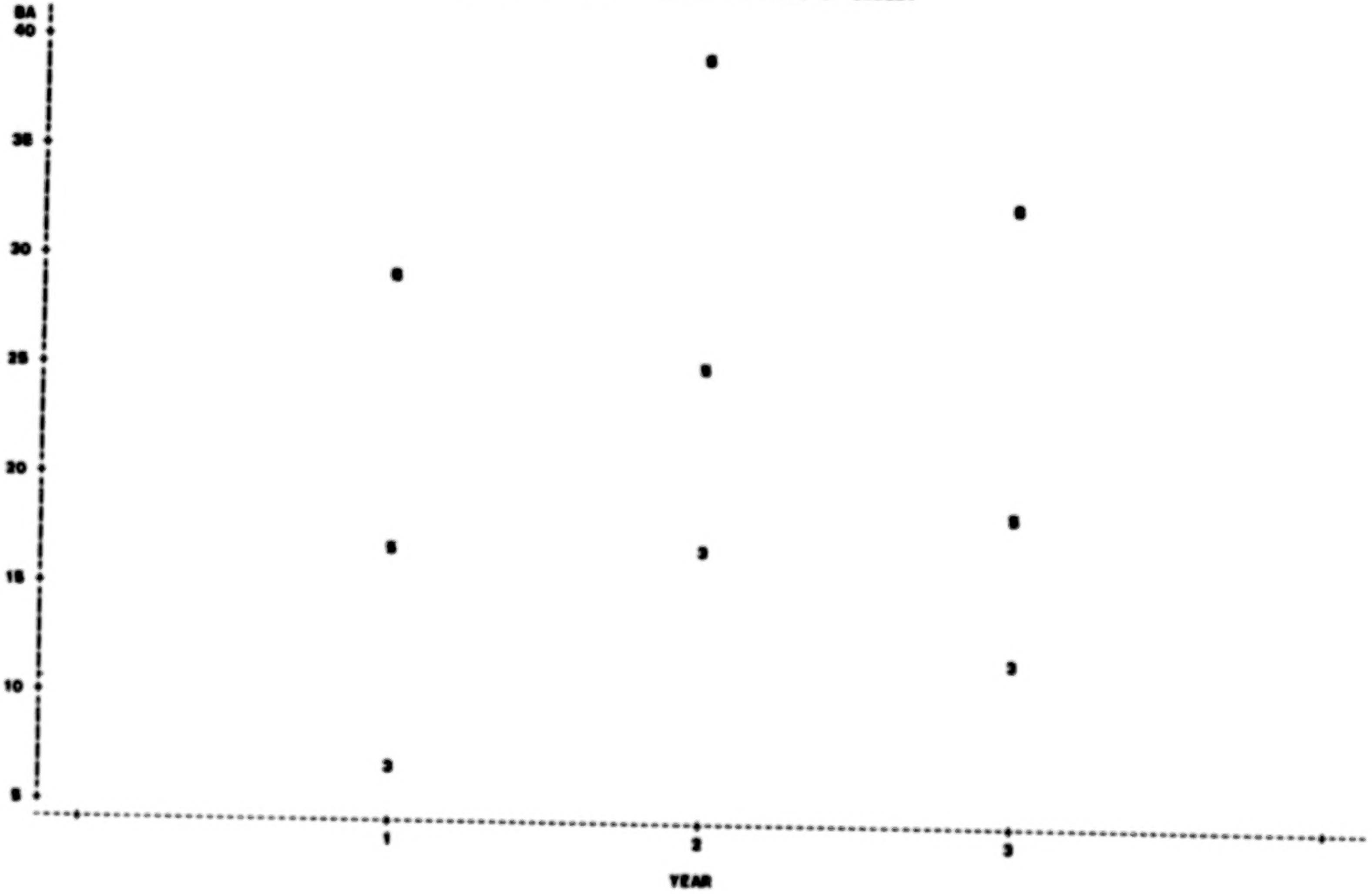
SECTION 10

PLOTS OF EACH NUTRIENT CONCENTRATION VERSUS TIME FOR EACH COMBINATION OF STATION AND [illegible]

0394

TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF BA*YEAR   SYMBOL IS VALUE OF SUBSET



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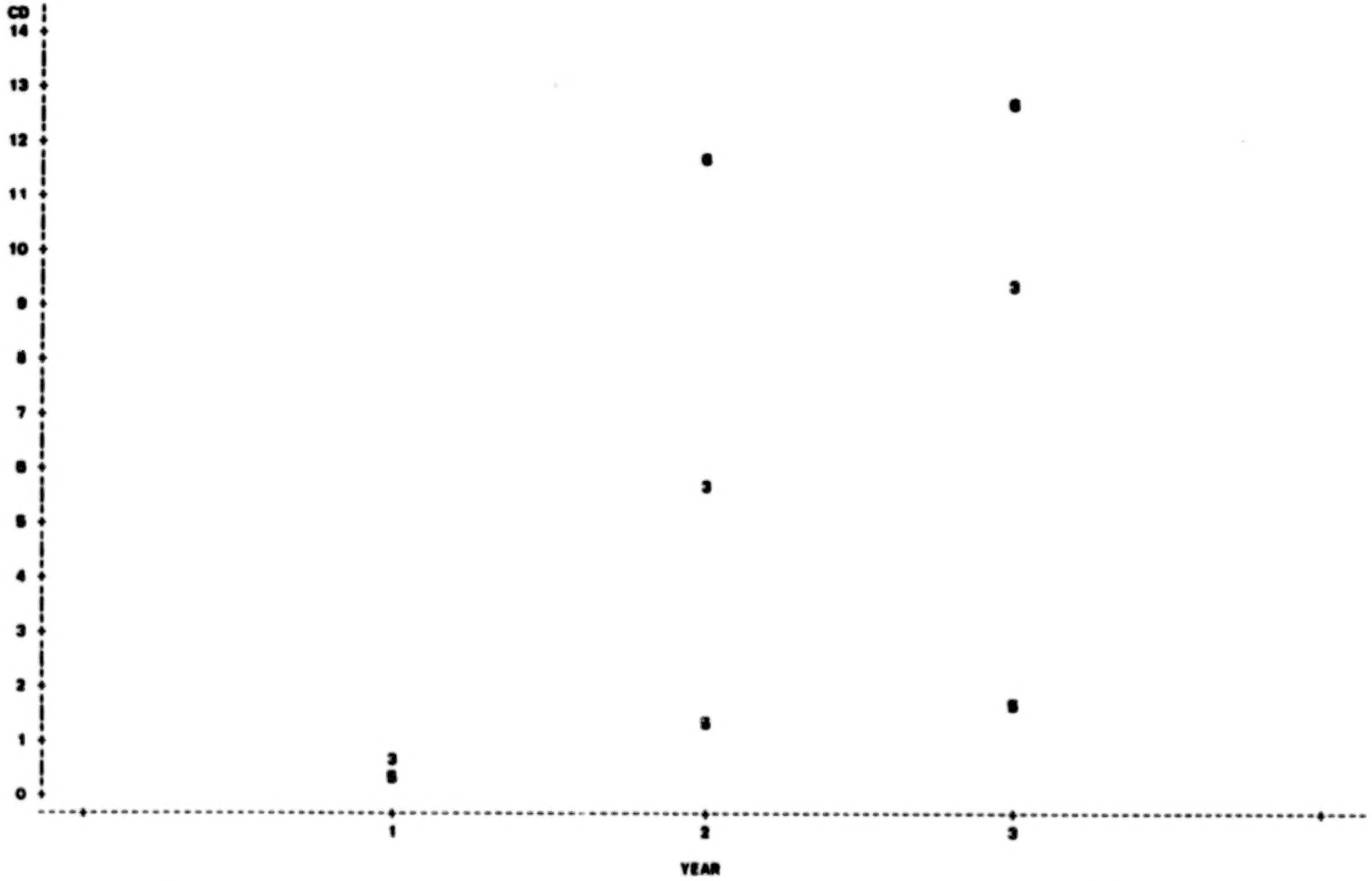
TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
8=CYRTODARIA AT 8F
6=ASTARTE AT 6D

PLOT OF CD*YEAR   SYMBOL IS VALUE OF SUBSET



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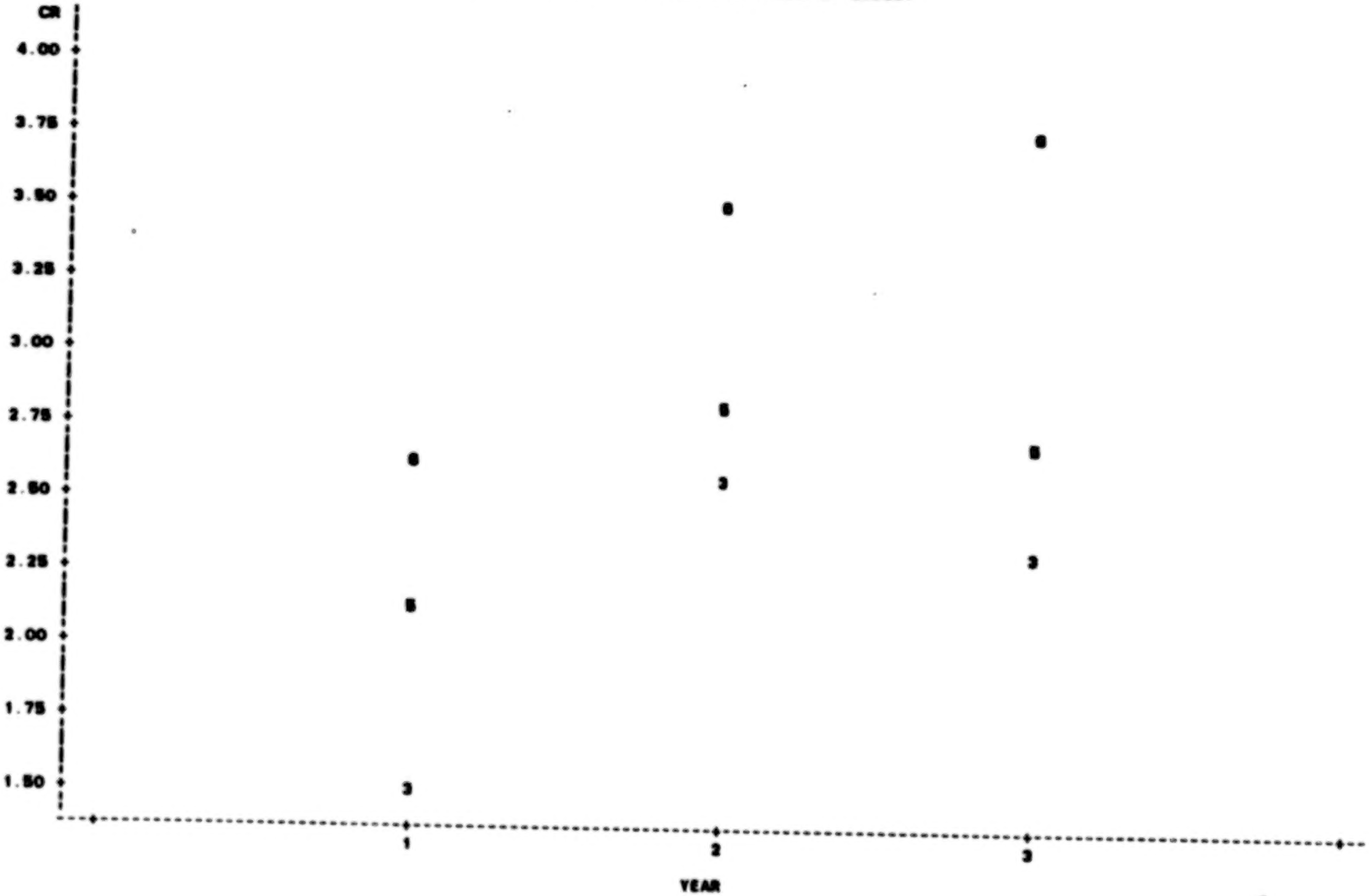
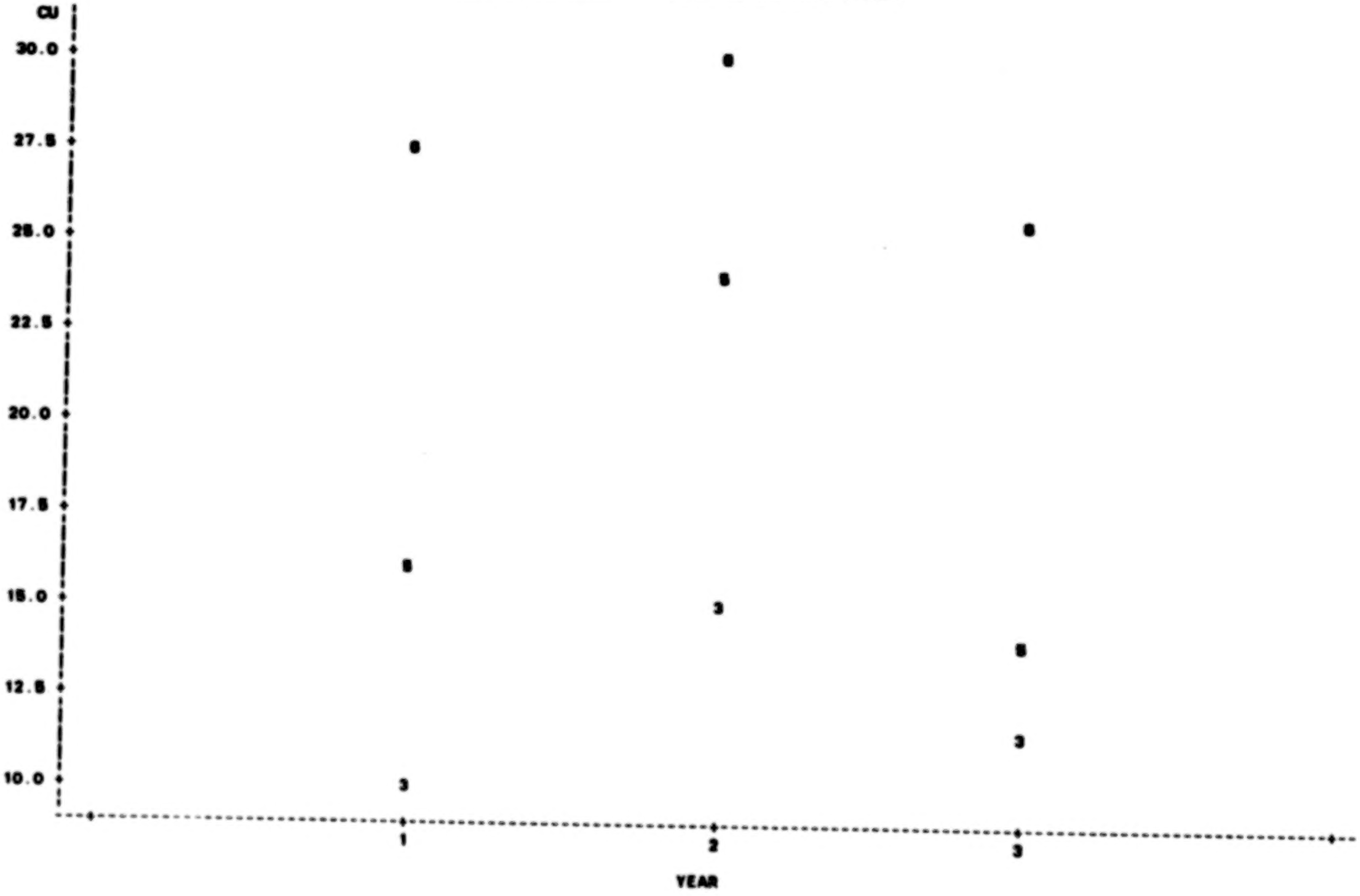
TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF CR*YEAR   SYMBOL IS VALUE OF SUBSET



TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

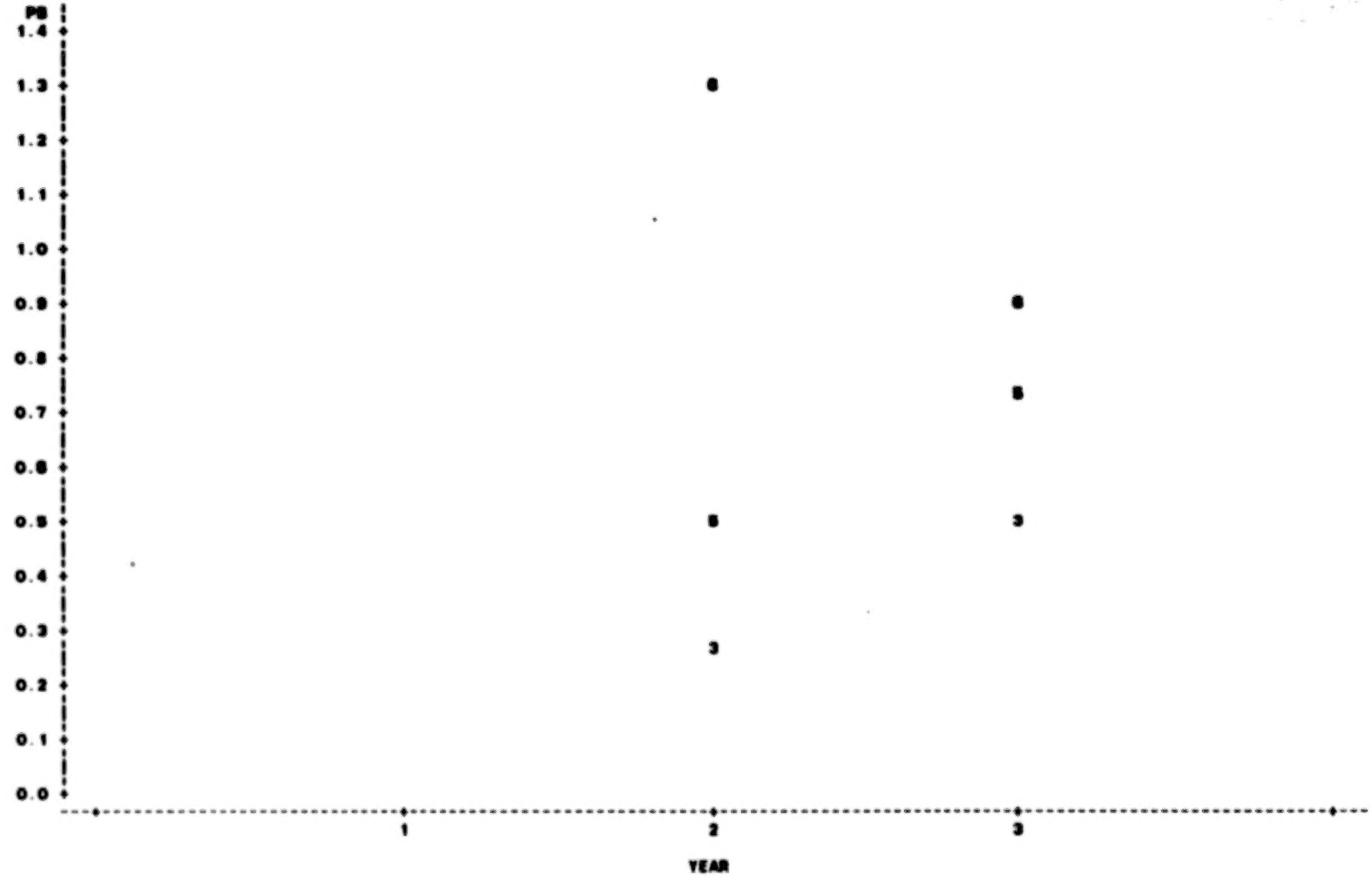
PLOT OF CU*YEAR   SYMBOL IS VALUE OF SUBSET



0348

TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF PB*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 3 OBS HAD MISSING VALUES OR WERE OUT OF RANGE

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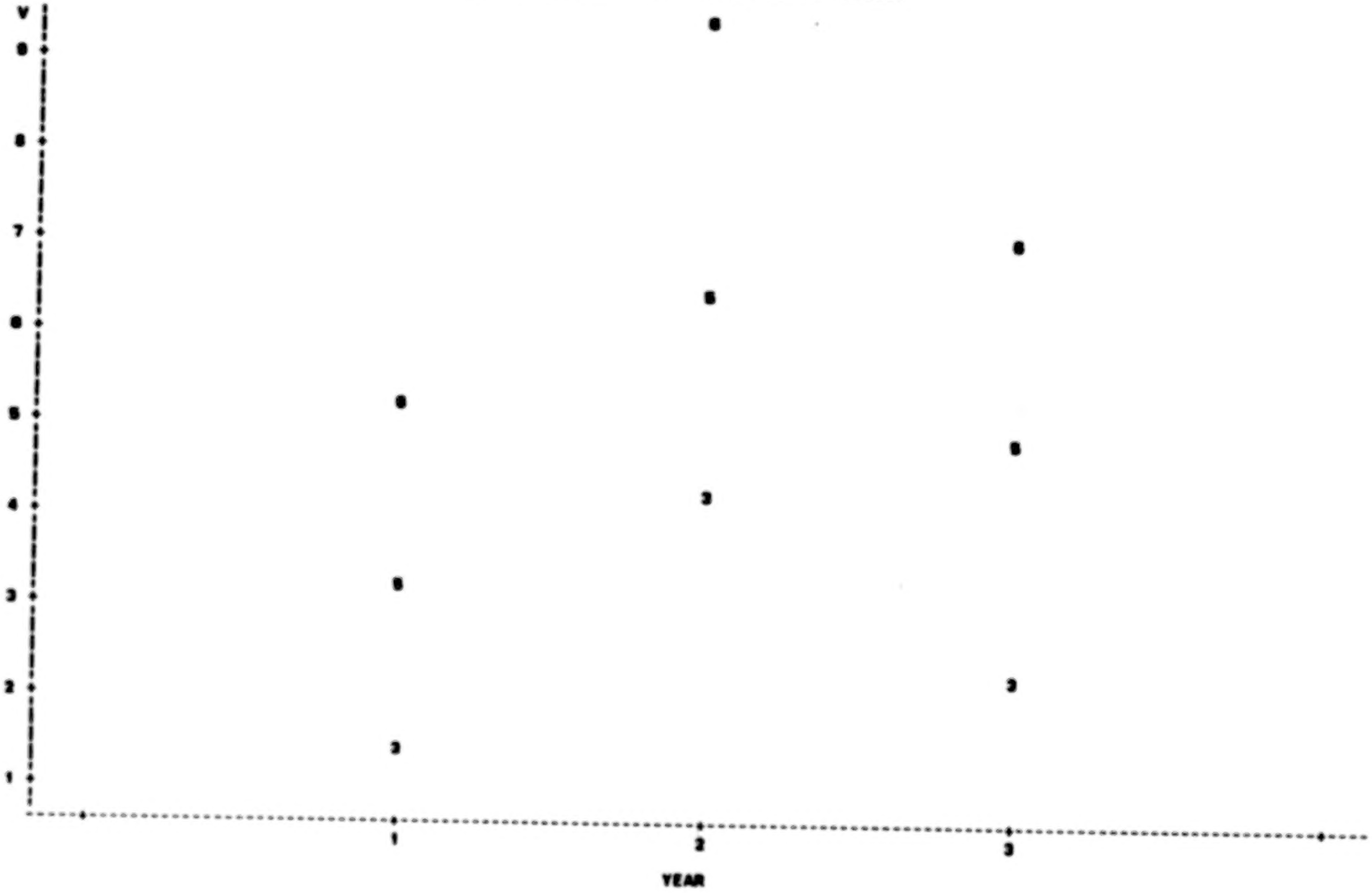
0349

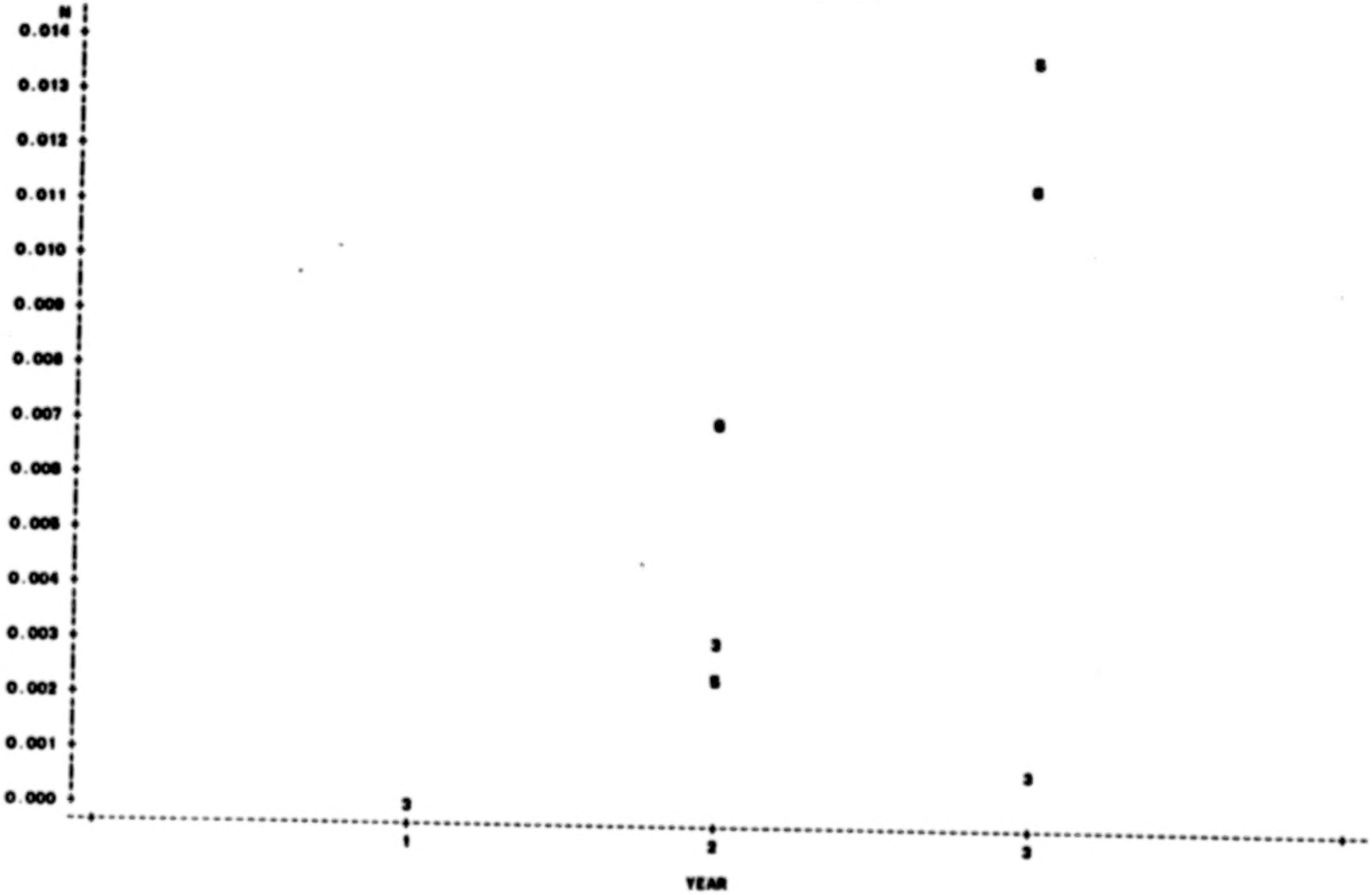
TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF V*YEAR   SYMBOL IS VALUE OF SUBSET



TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
8=ASTARTE AT 8D

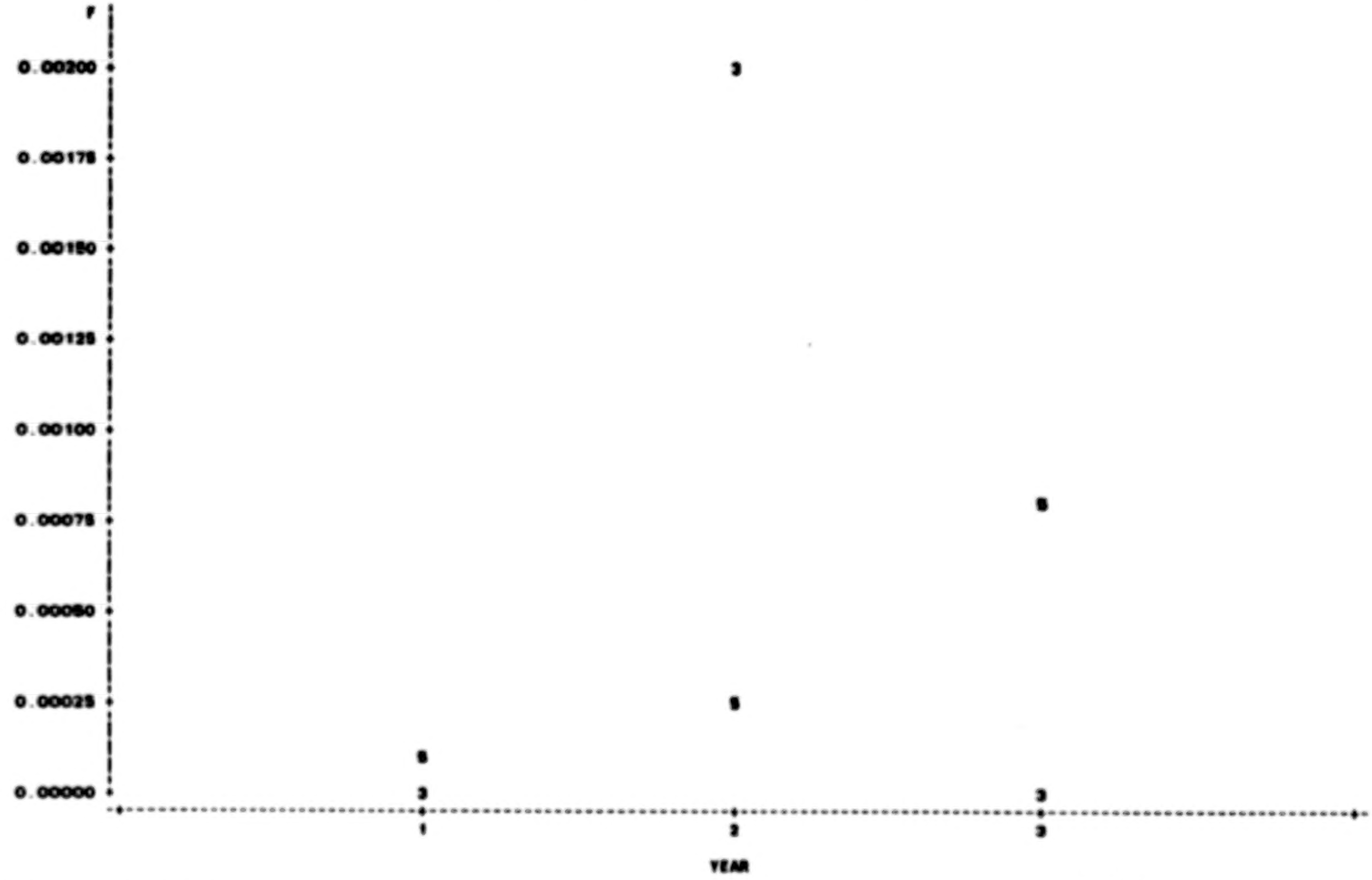
PLOT OF N*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 2 OBS HIDDEN

TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF F*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 3 OBS HIDDEN

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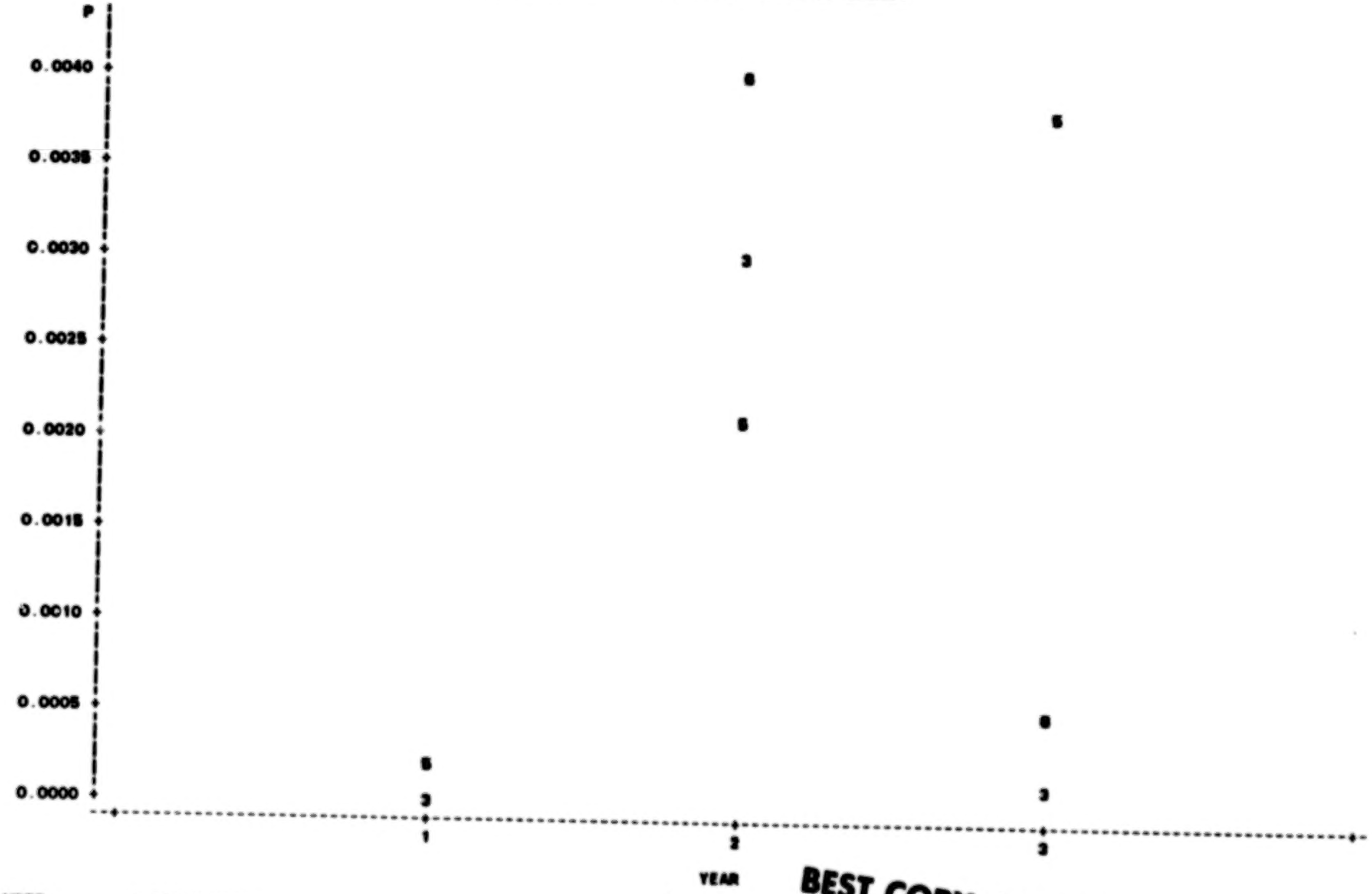
TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

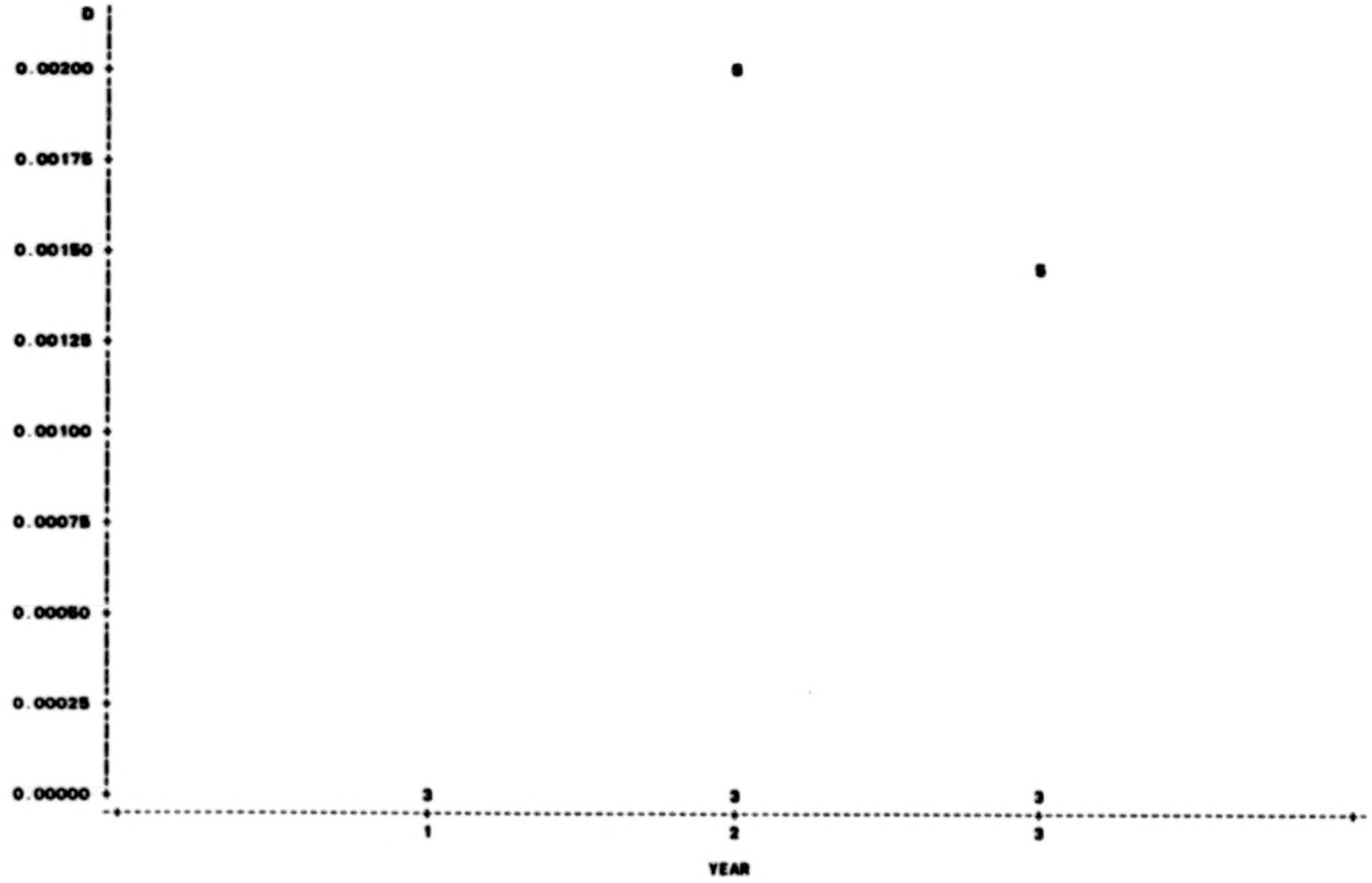
PLOT OF P*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 1 OBS HIDDEN

TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF D*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 4 OBS HIDDEN

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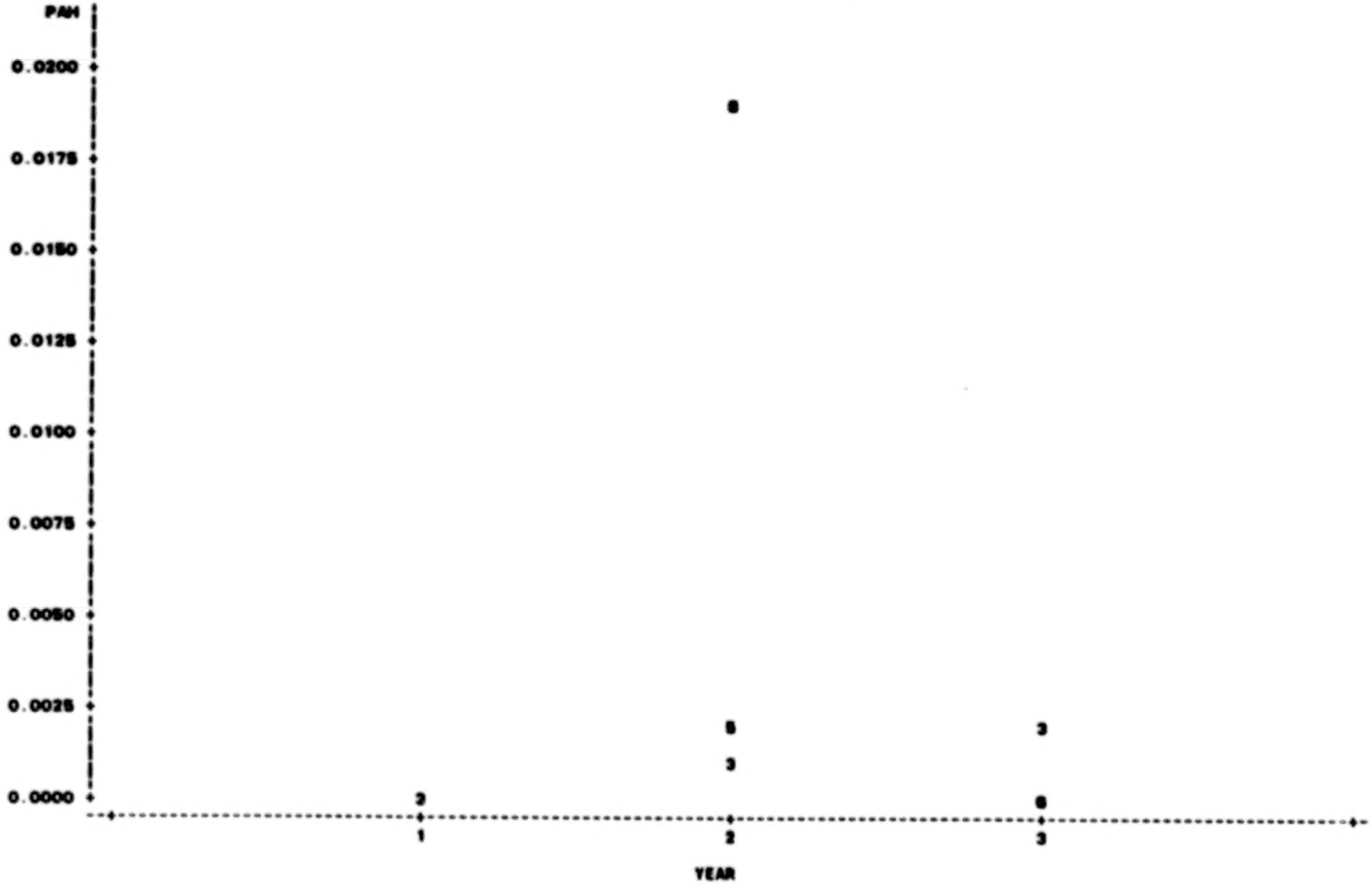
TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

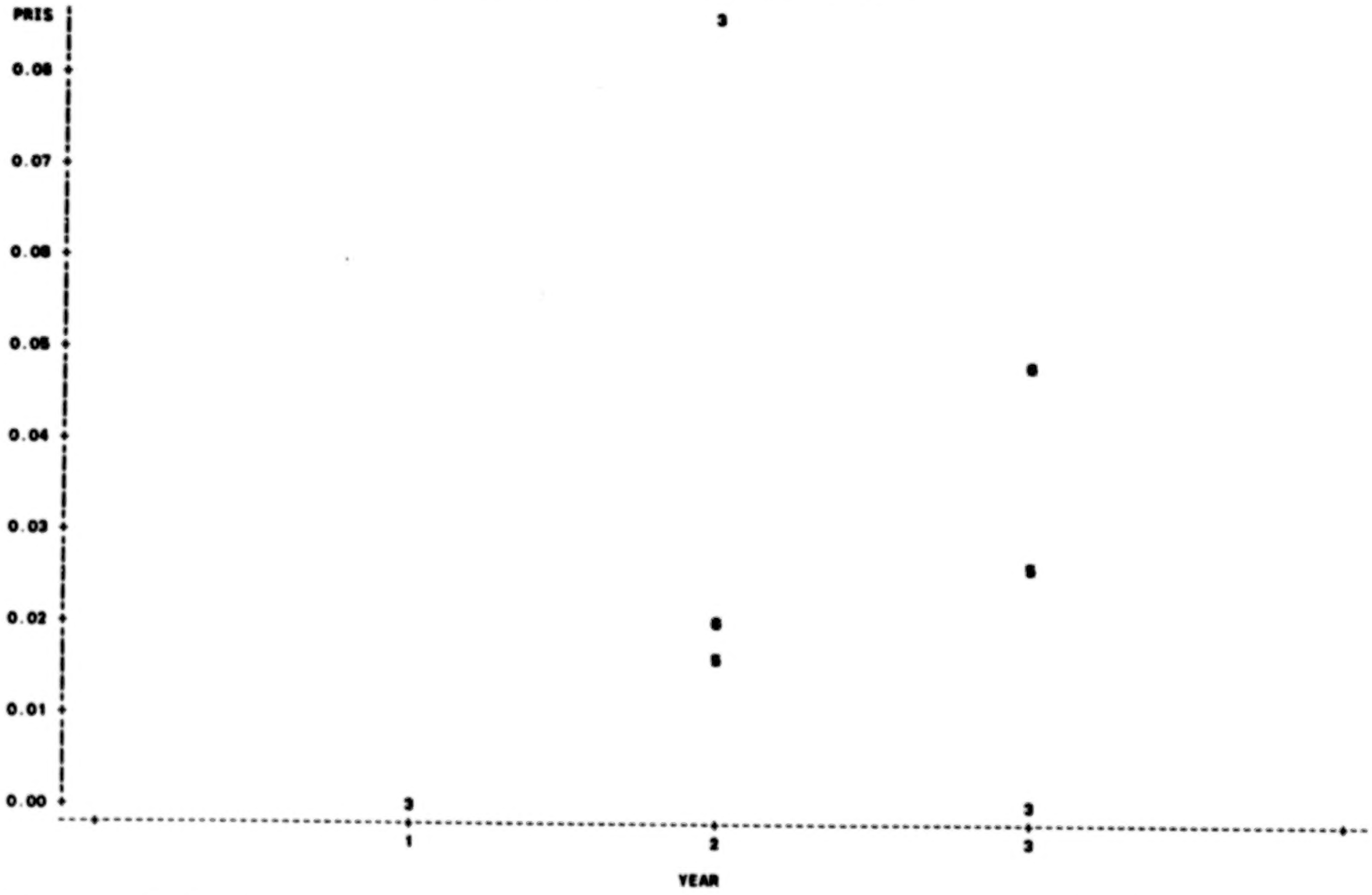
PLOT OF PAH*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 3 OBS HIDDEN

TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

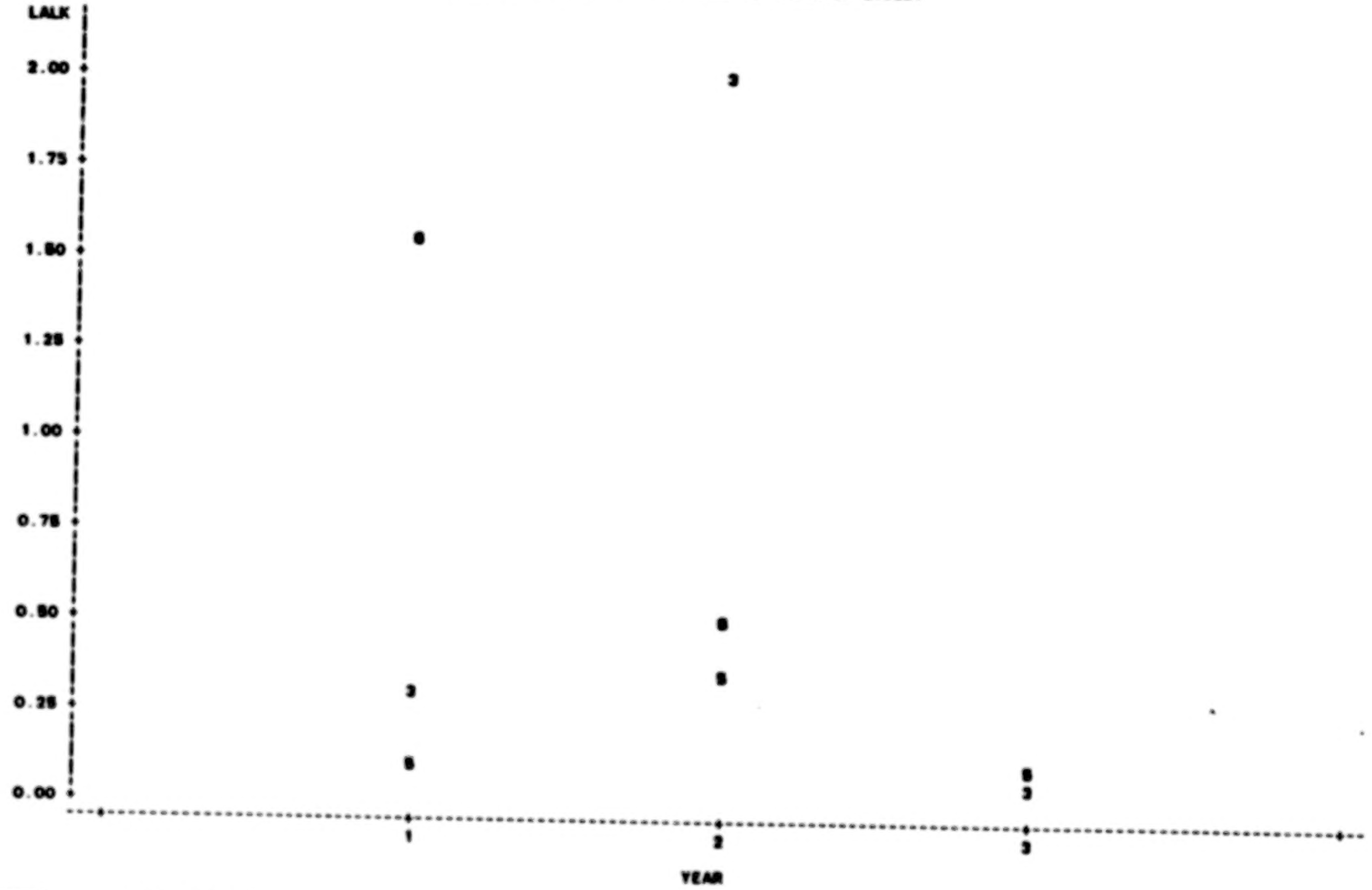
PLOT OF PRIS*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 2 OBS HIDDEN

TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF LALK*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 1 OBS HIDDEN

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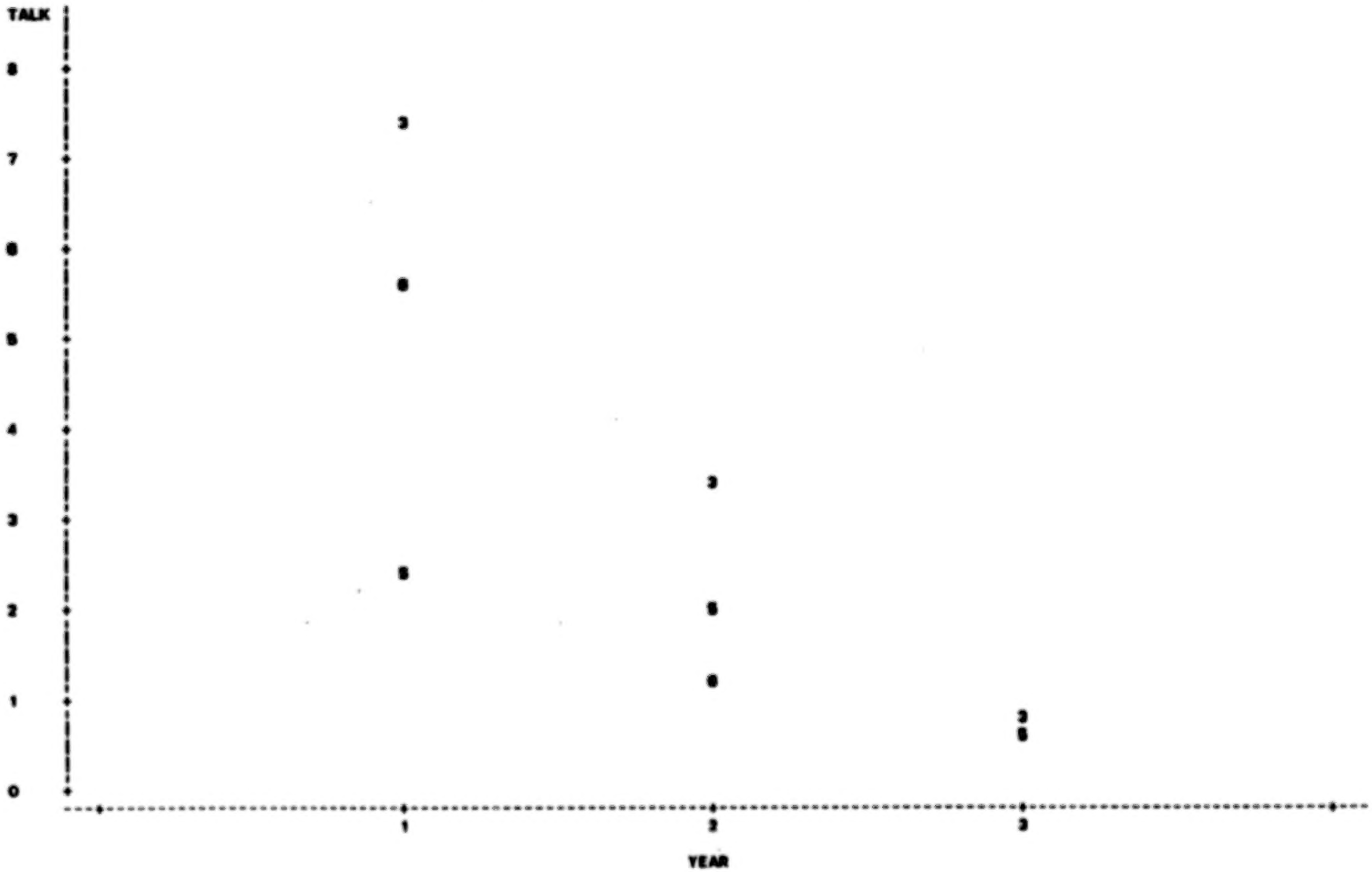
TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF TALK*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 1 OBS HIDDEN

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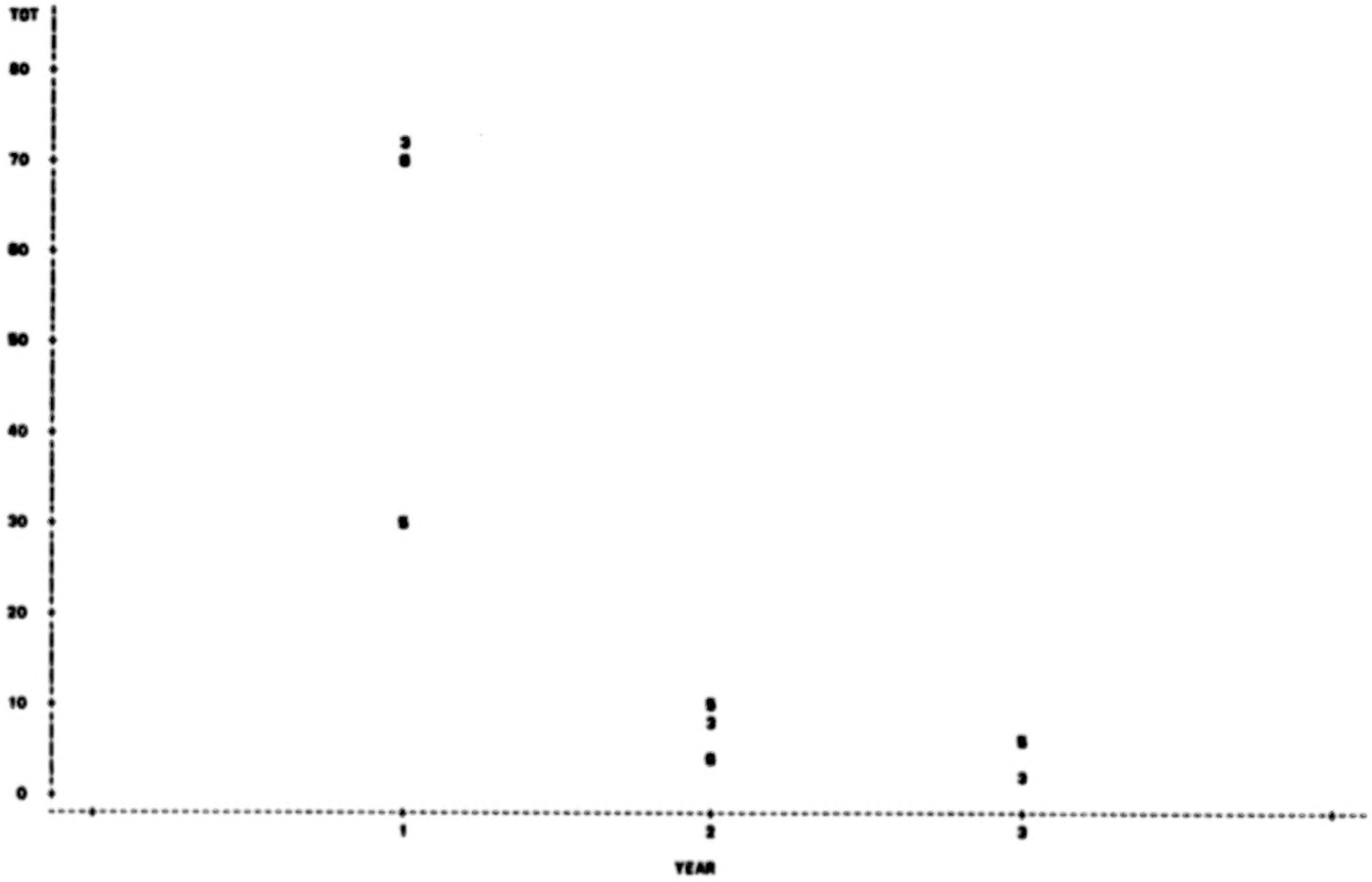
TISSUE DATA ANALYSES FOR SELECTED SPECIES AND SAMPLING STATIONS
PLOT OF GEOMETRIC MEANS FOR EACH DATA SUBSET AND YEAR
SYMBOLS USED ARE: 3=ASTARTE AT 3A
5=CYRTODARIA AT 5F
6=ASTARTE AT 6D

PLOT OF TOT*YEAR   SYMBOL IS VALUE OF SUBSET



NOTE: 1 OBS HIDDEN

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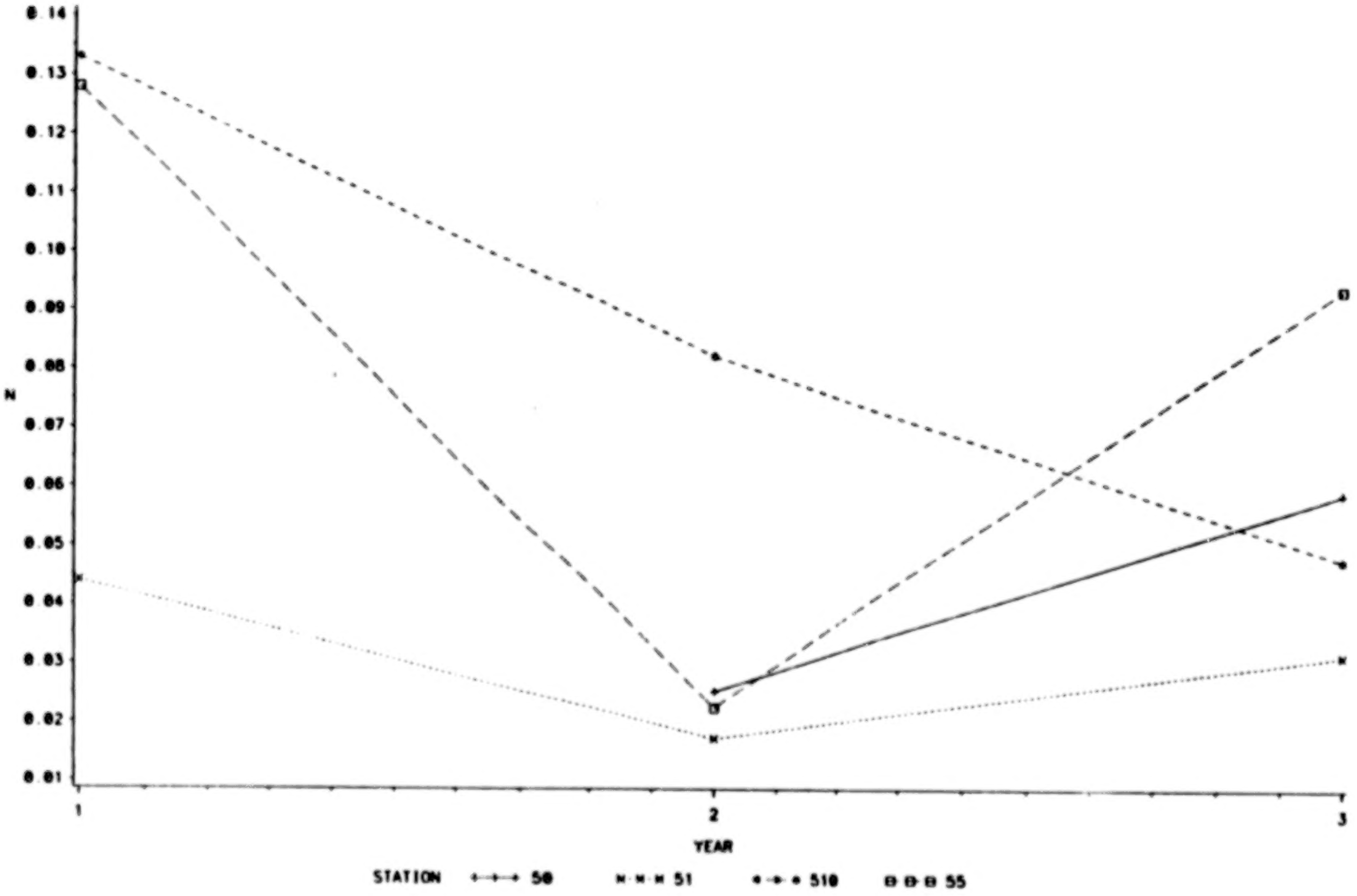
SECTION 11

PLOTS OF YEARLY GEOMETRIC MEANS OF THE ENDICOTT STATION SEDIMENT DATA FOR ALL YEARS

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT BULK



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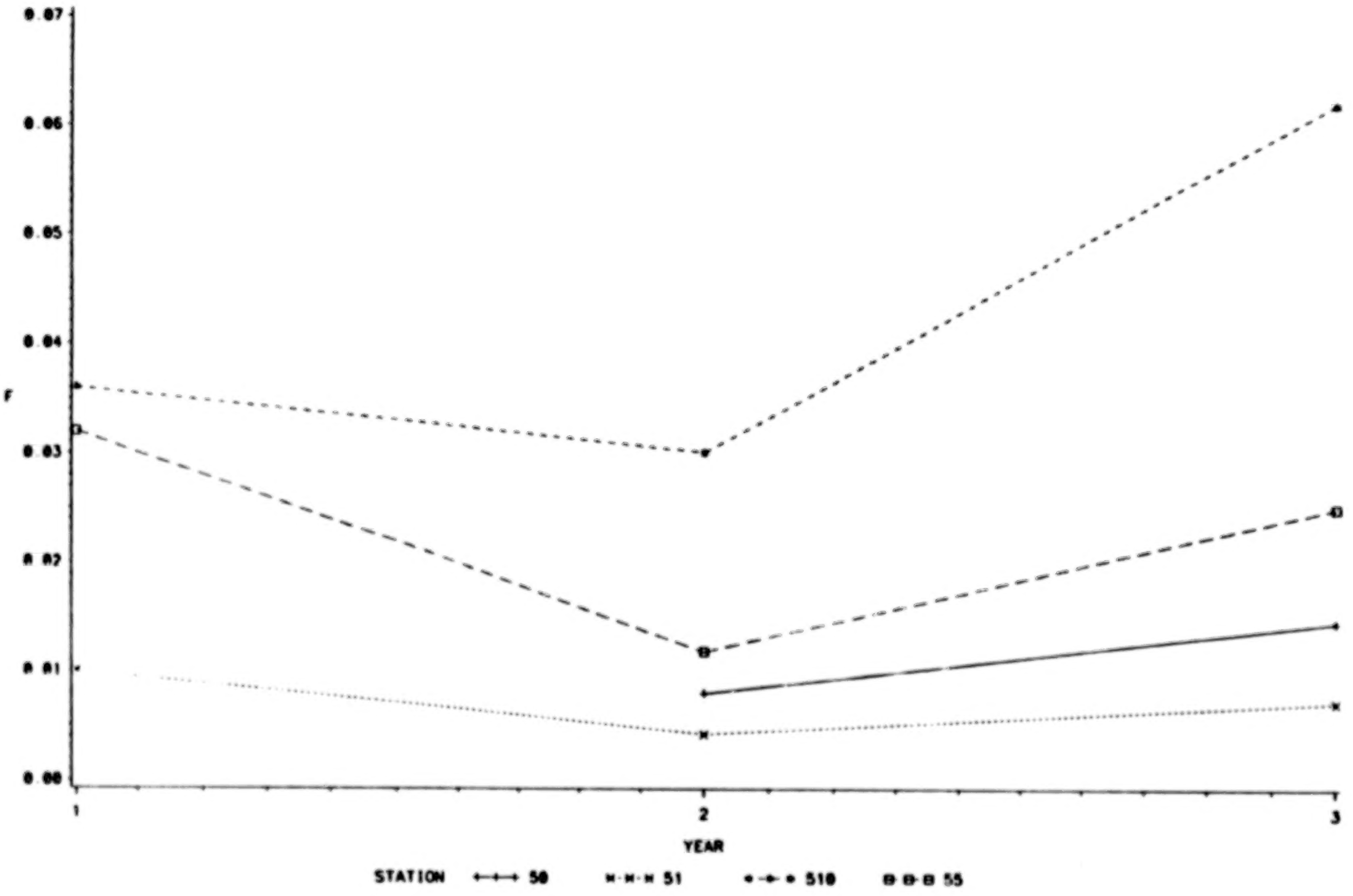
BEAUFORT SEA MONITORING PROGRAM

PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



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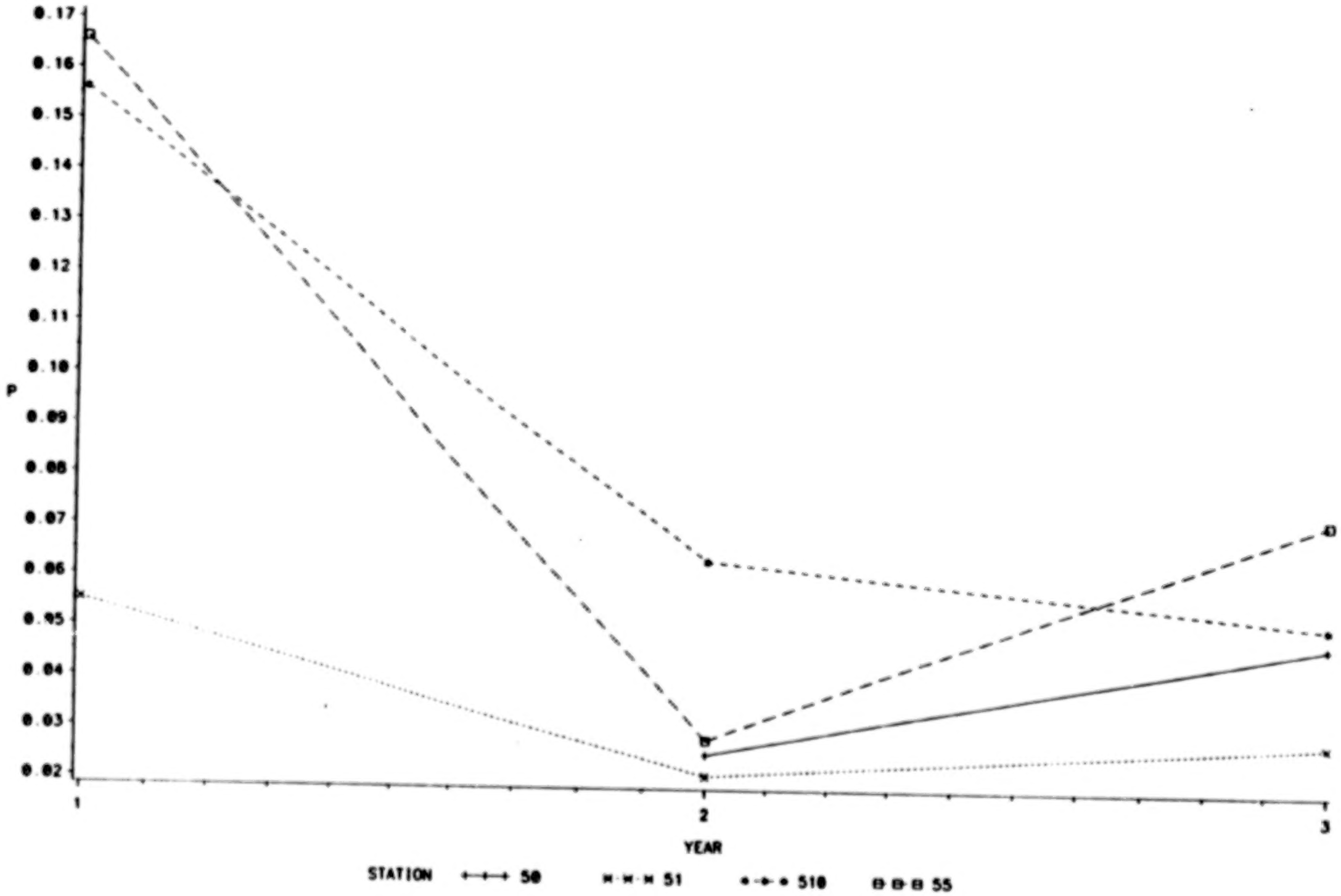
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



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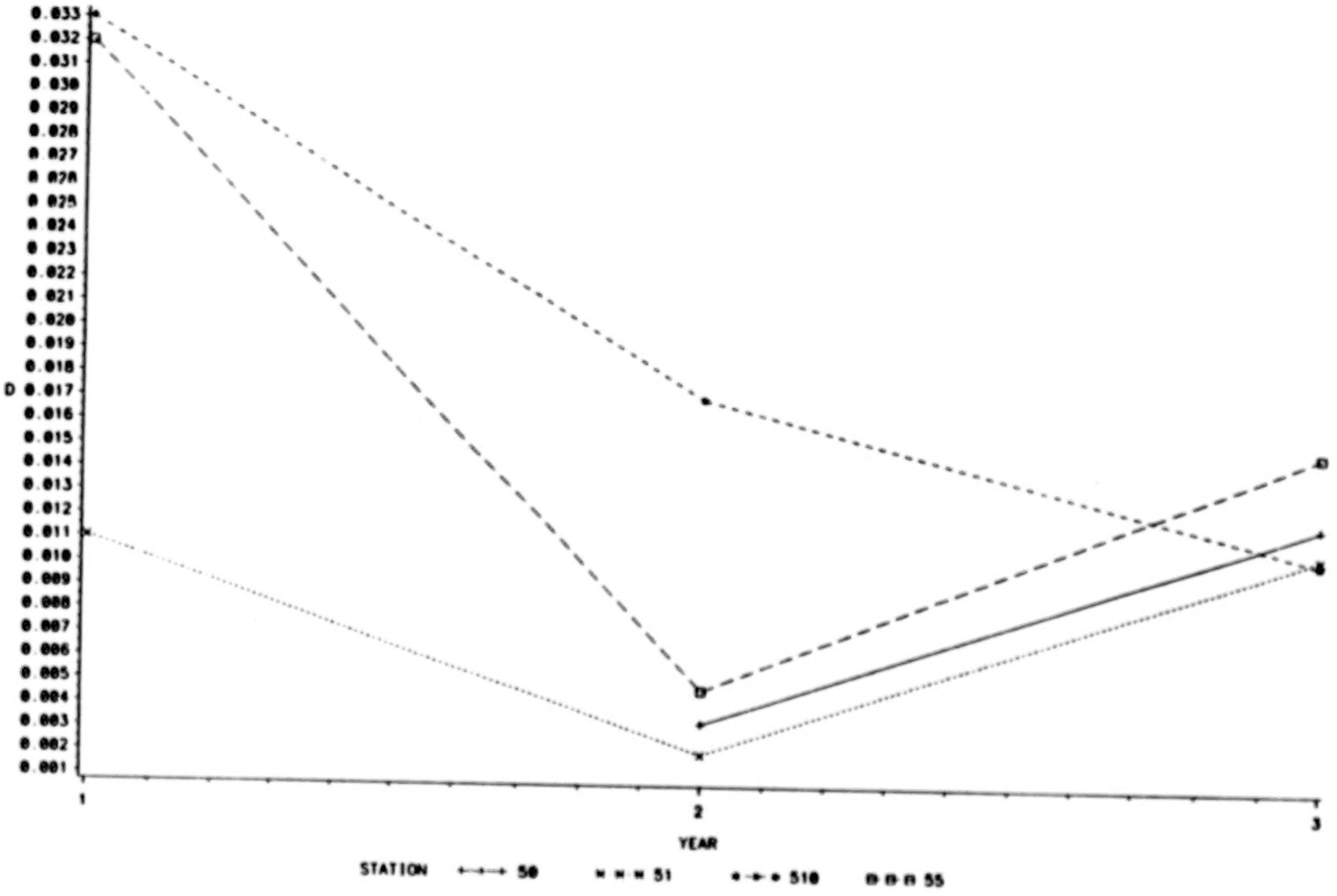
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



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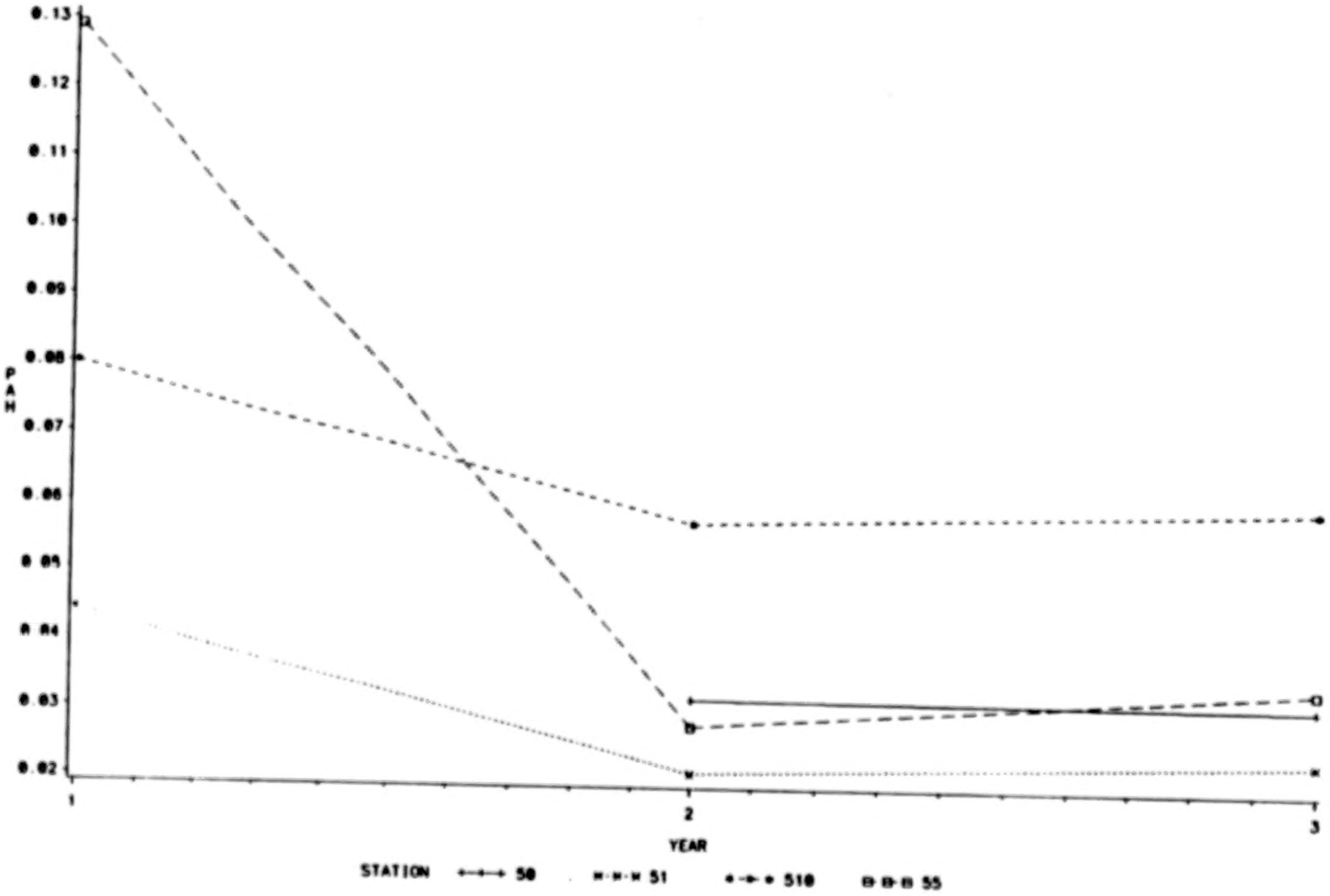
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



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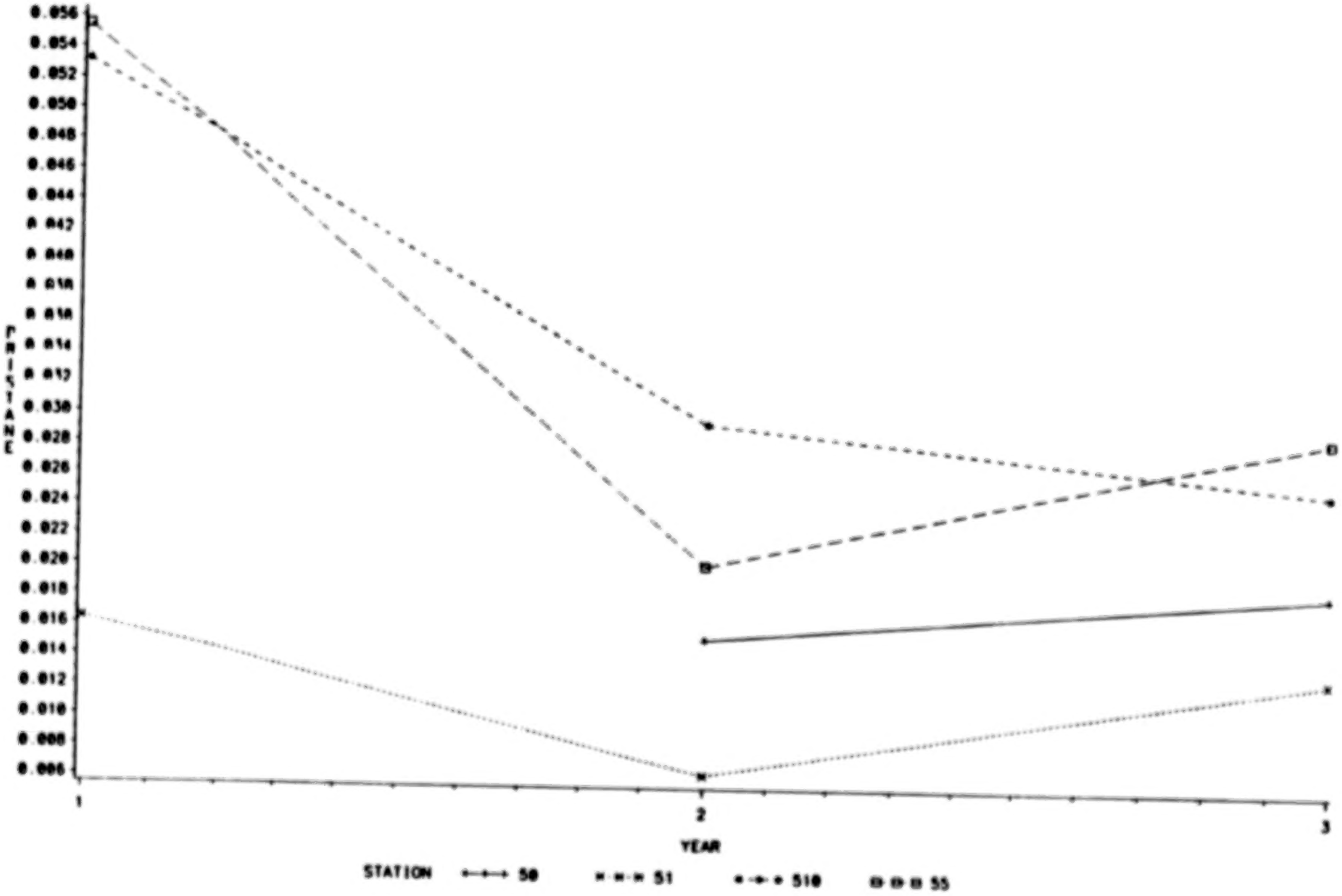
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



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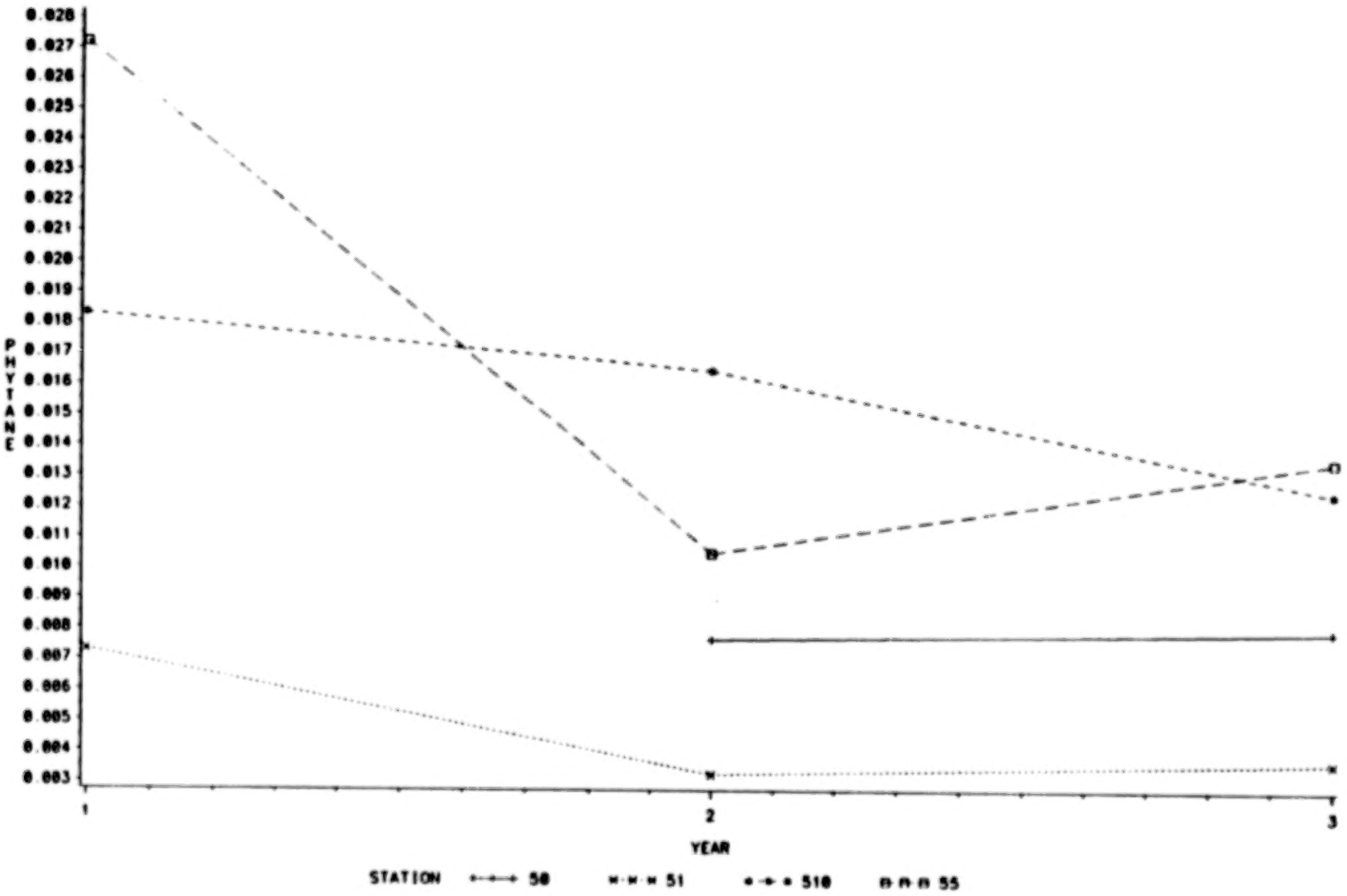
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



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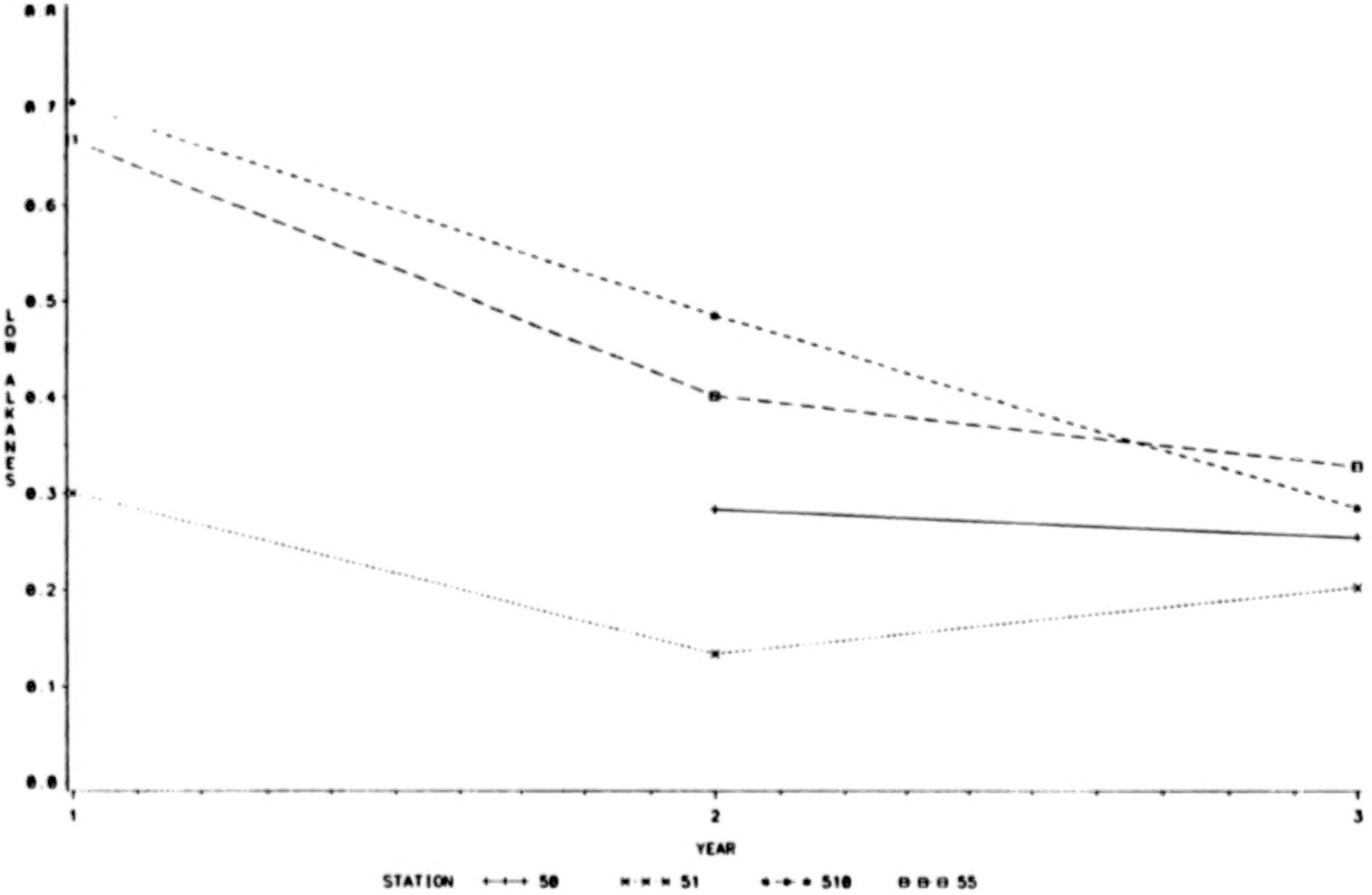
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT BULK



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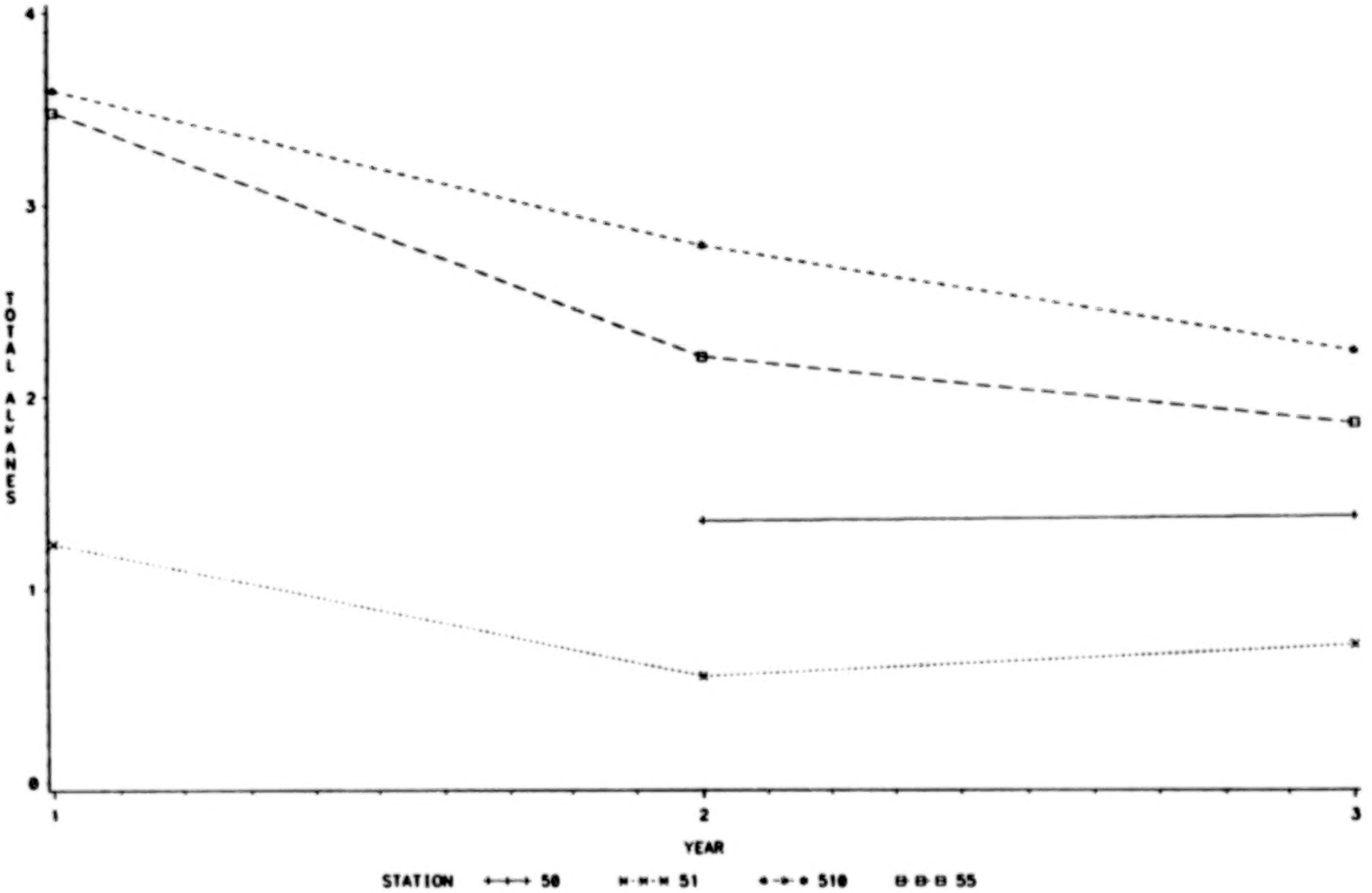
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



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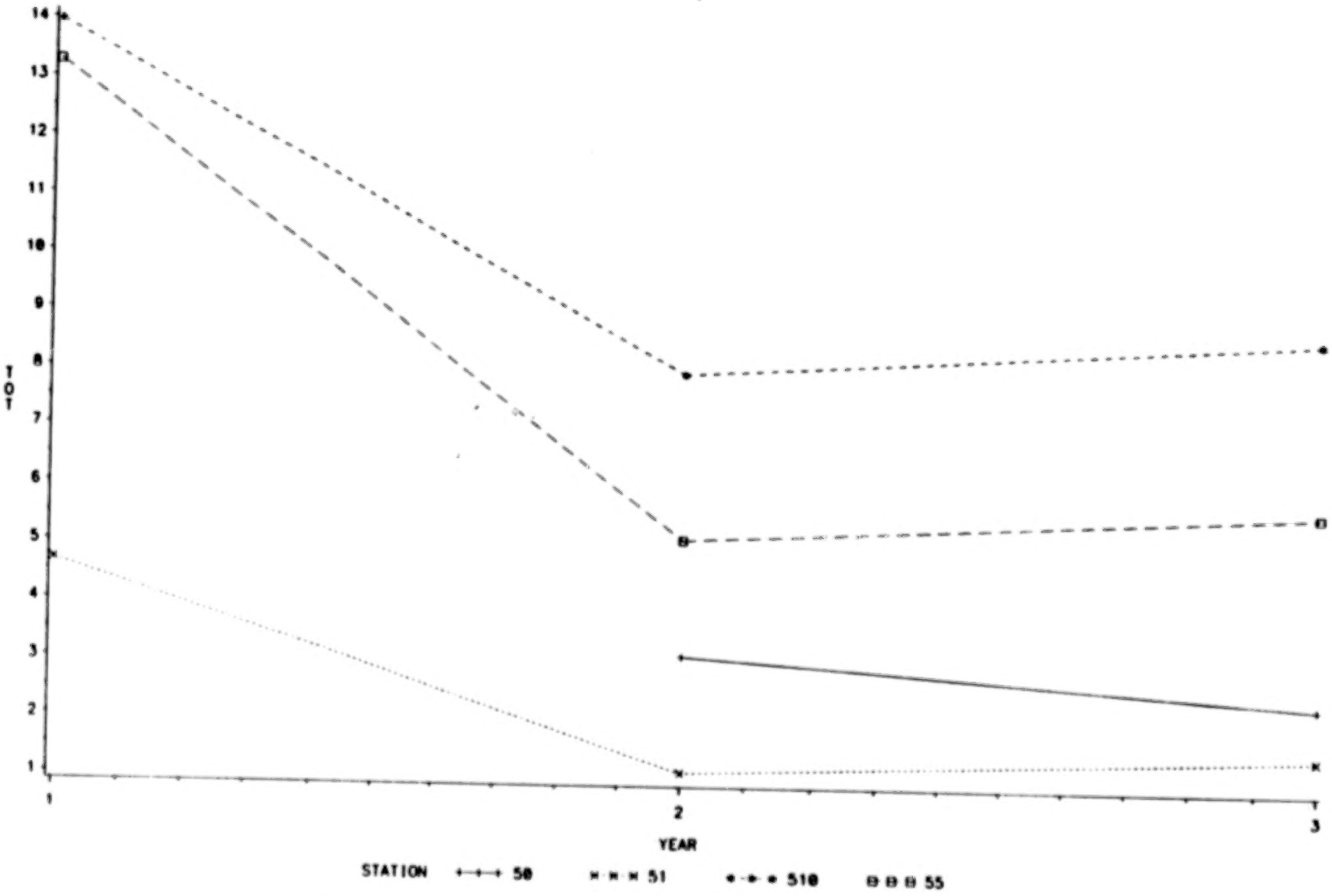
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



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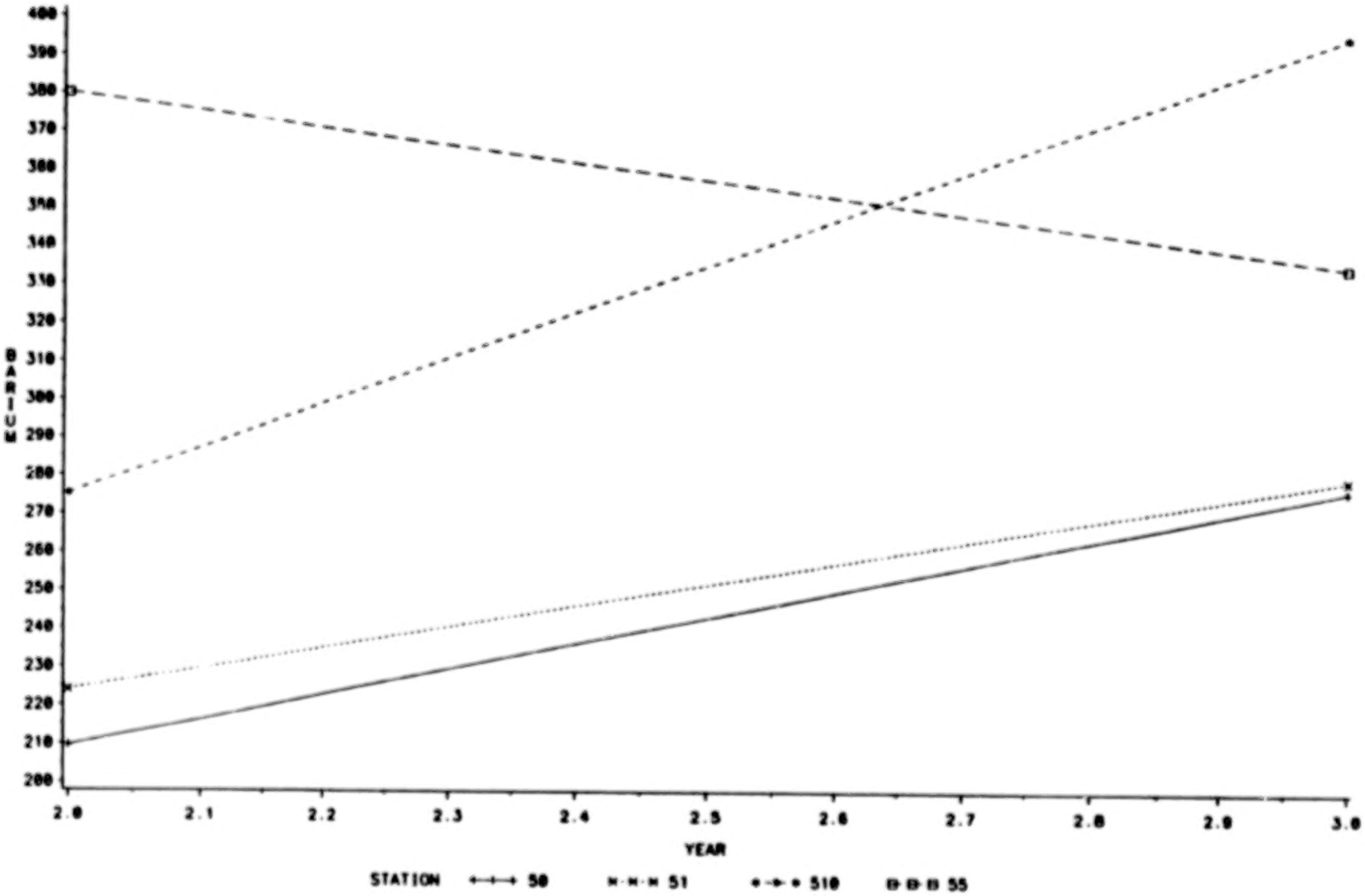
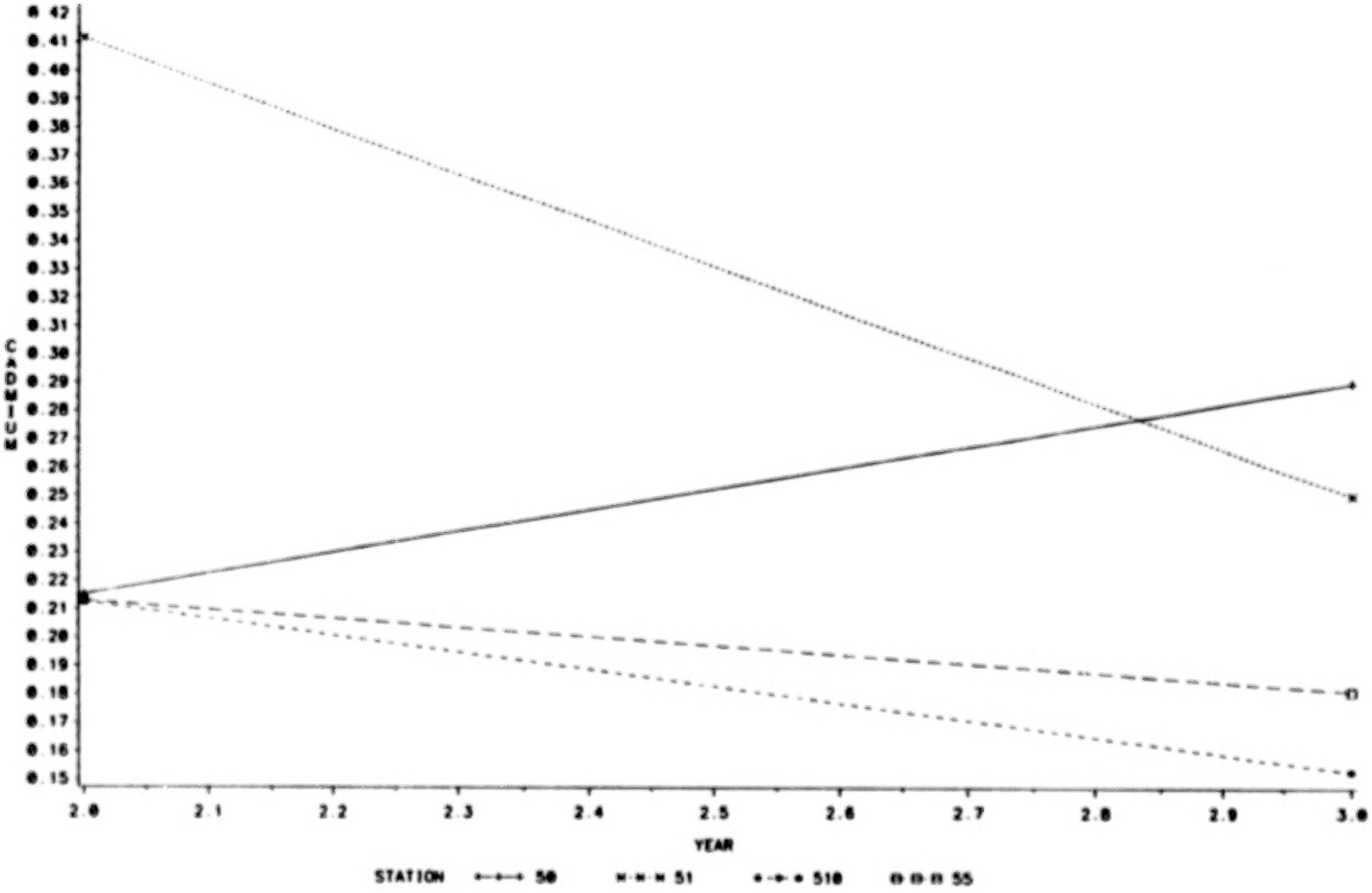
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



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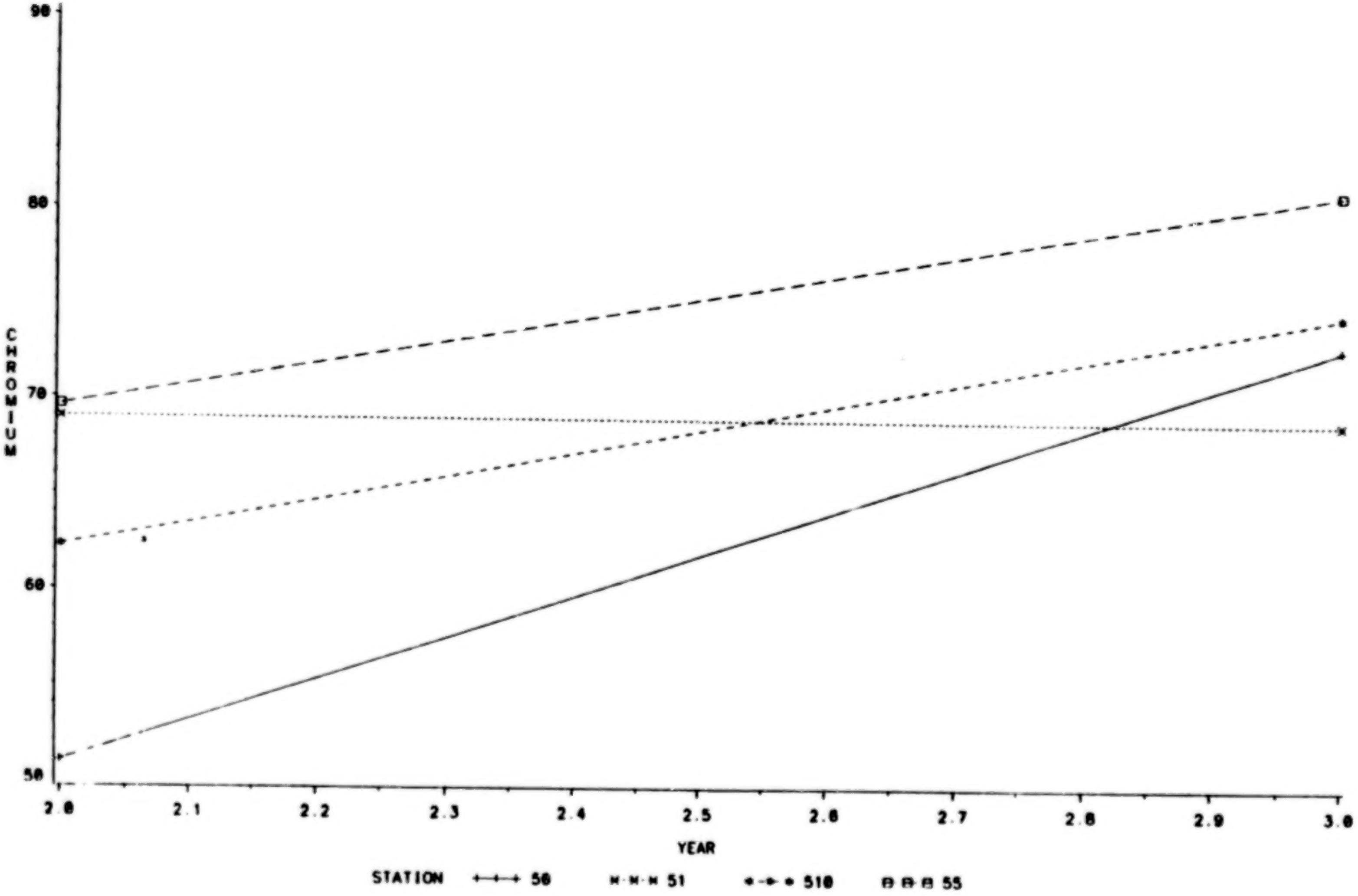
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



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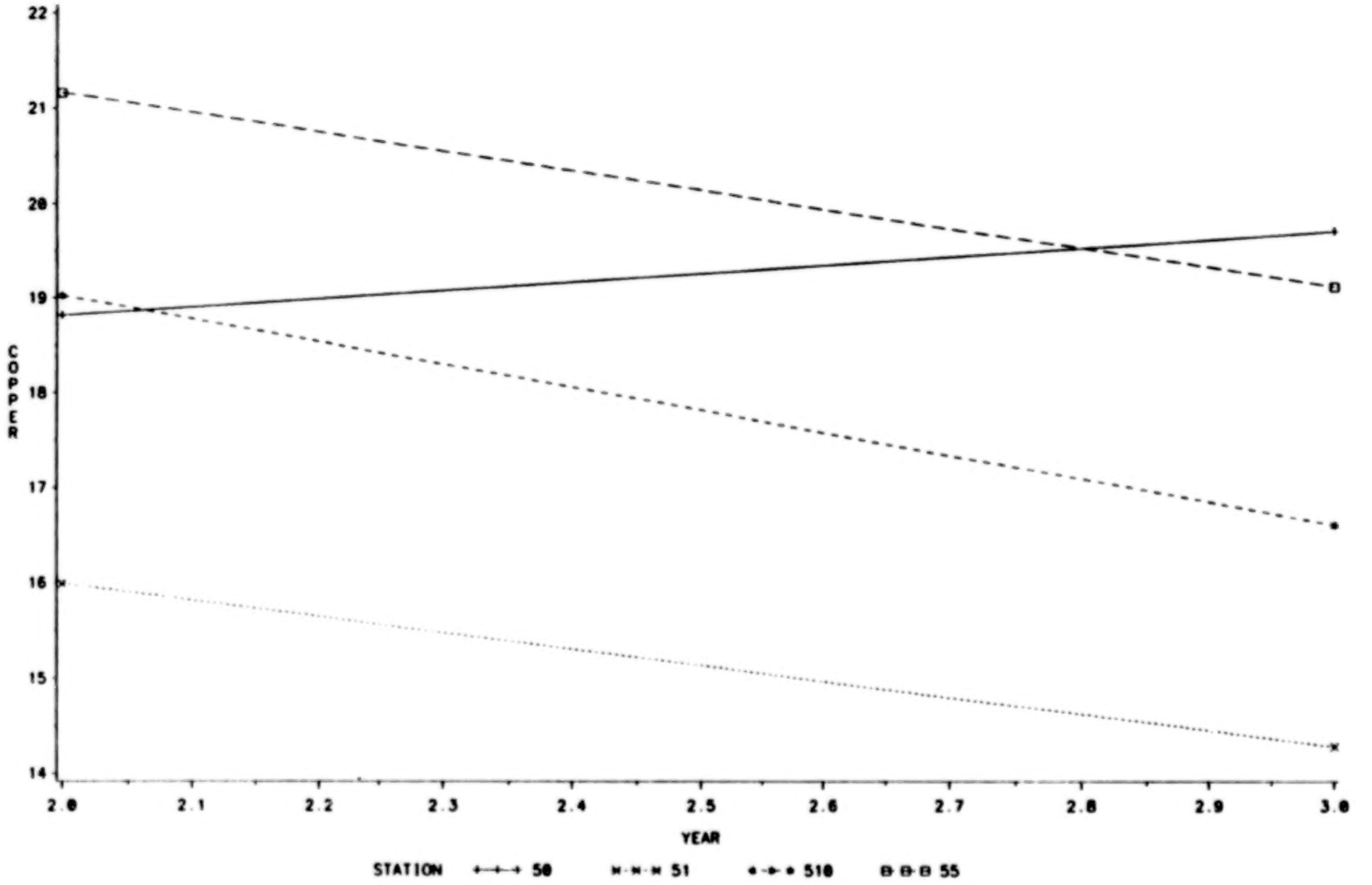
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



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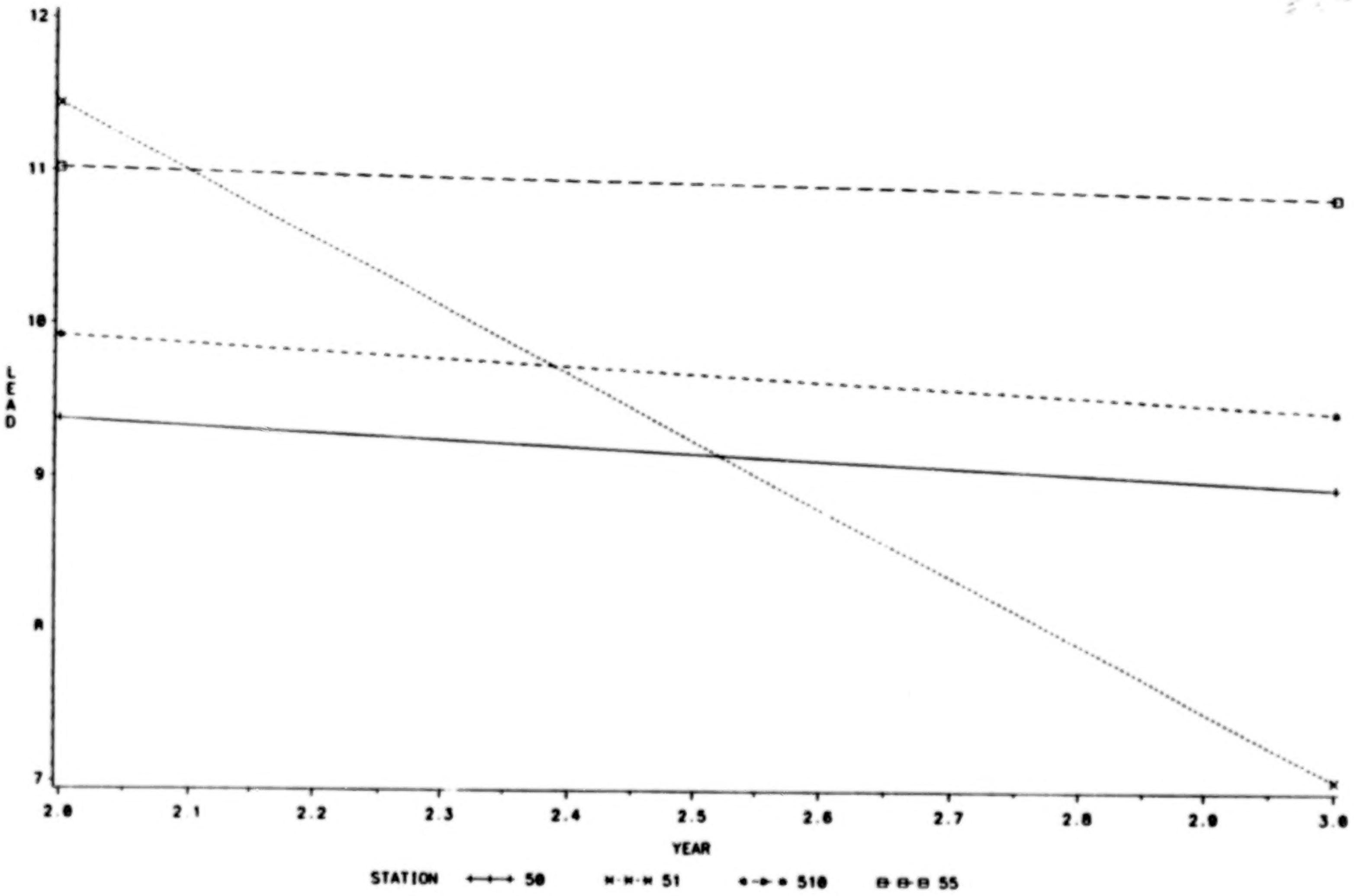
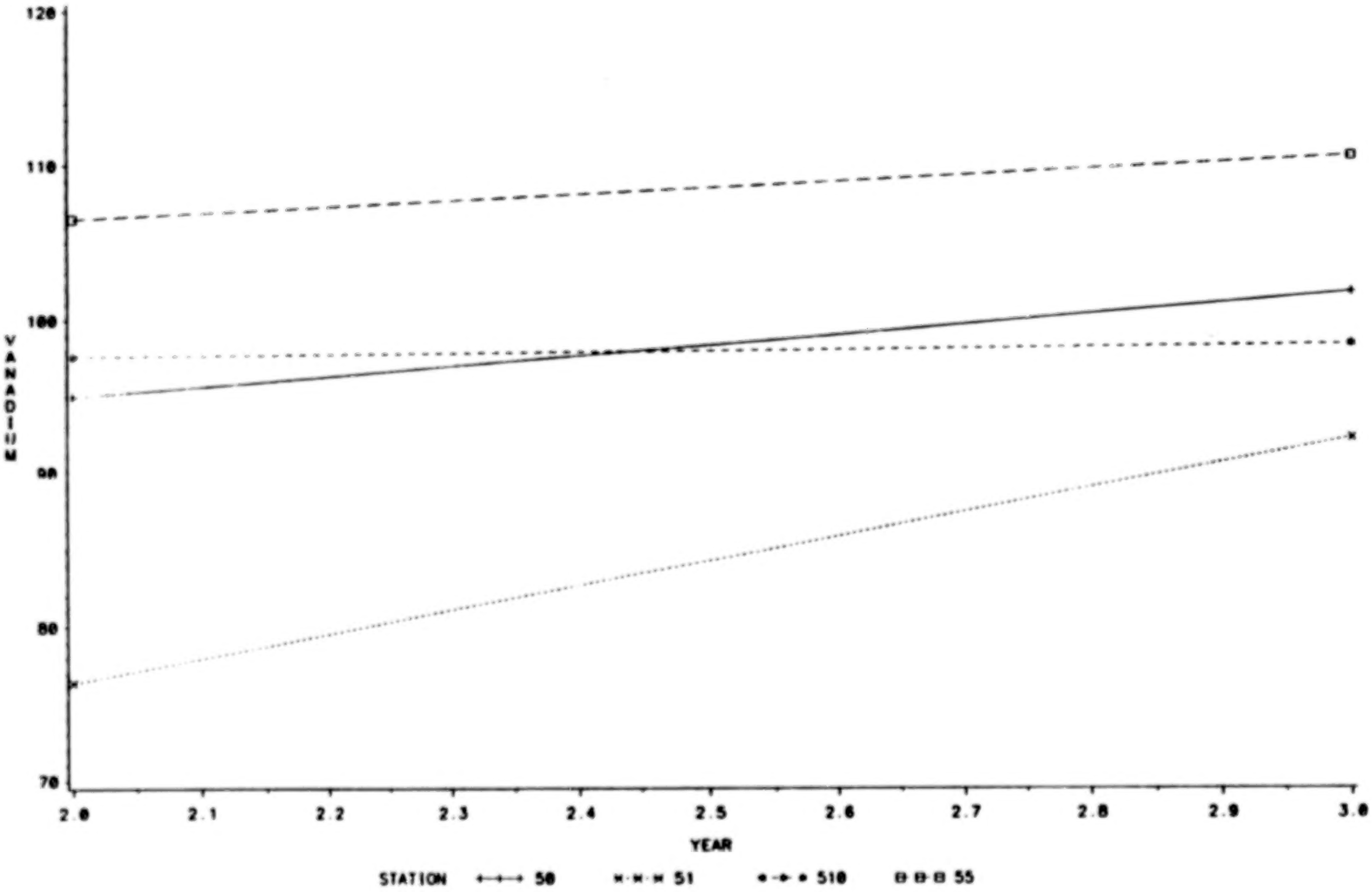
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



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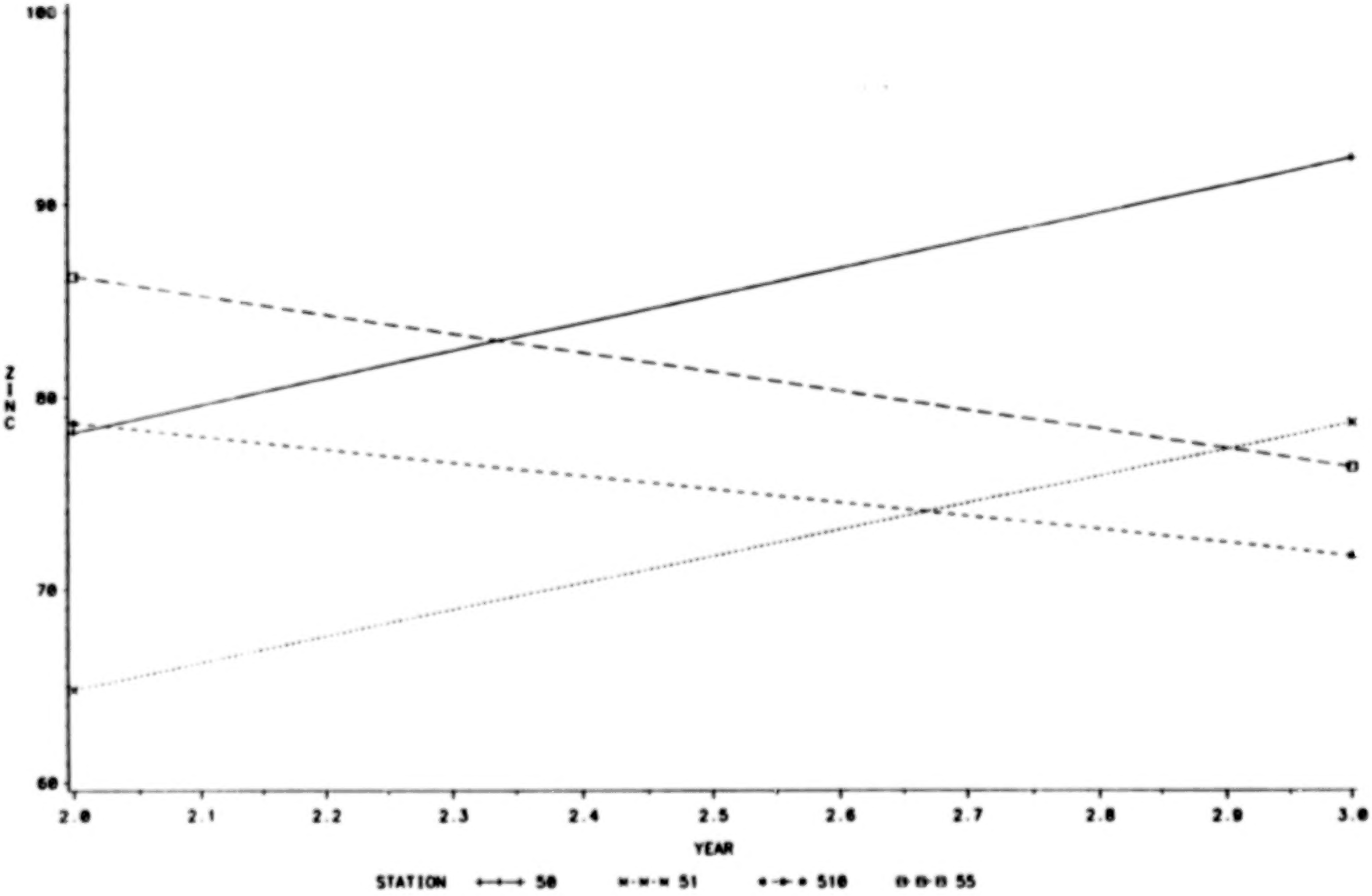
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



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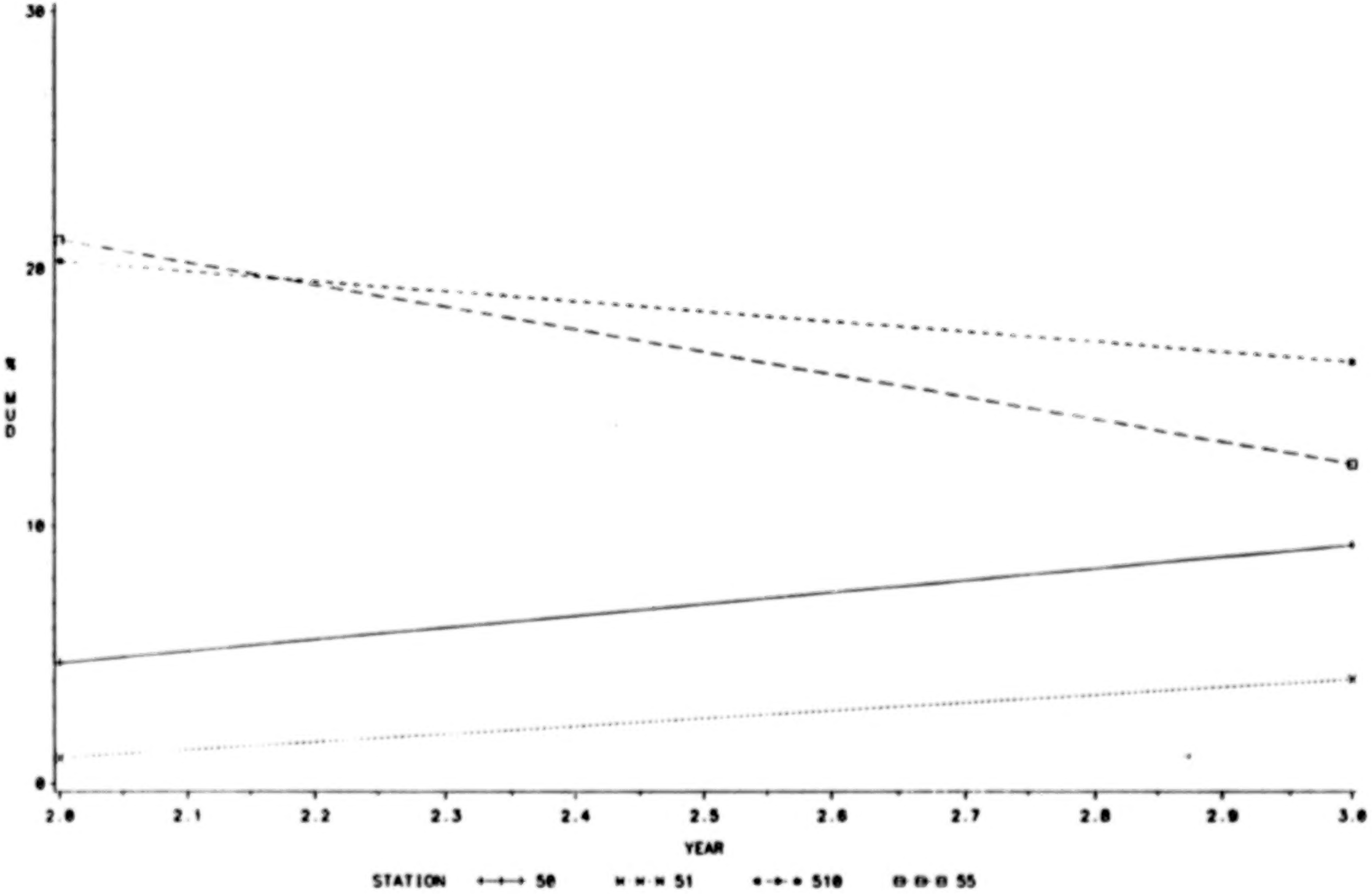
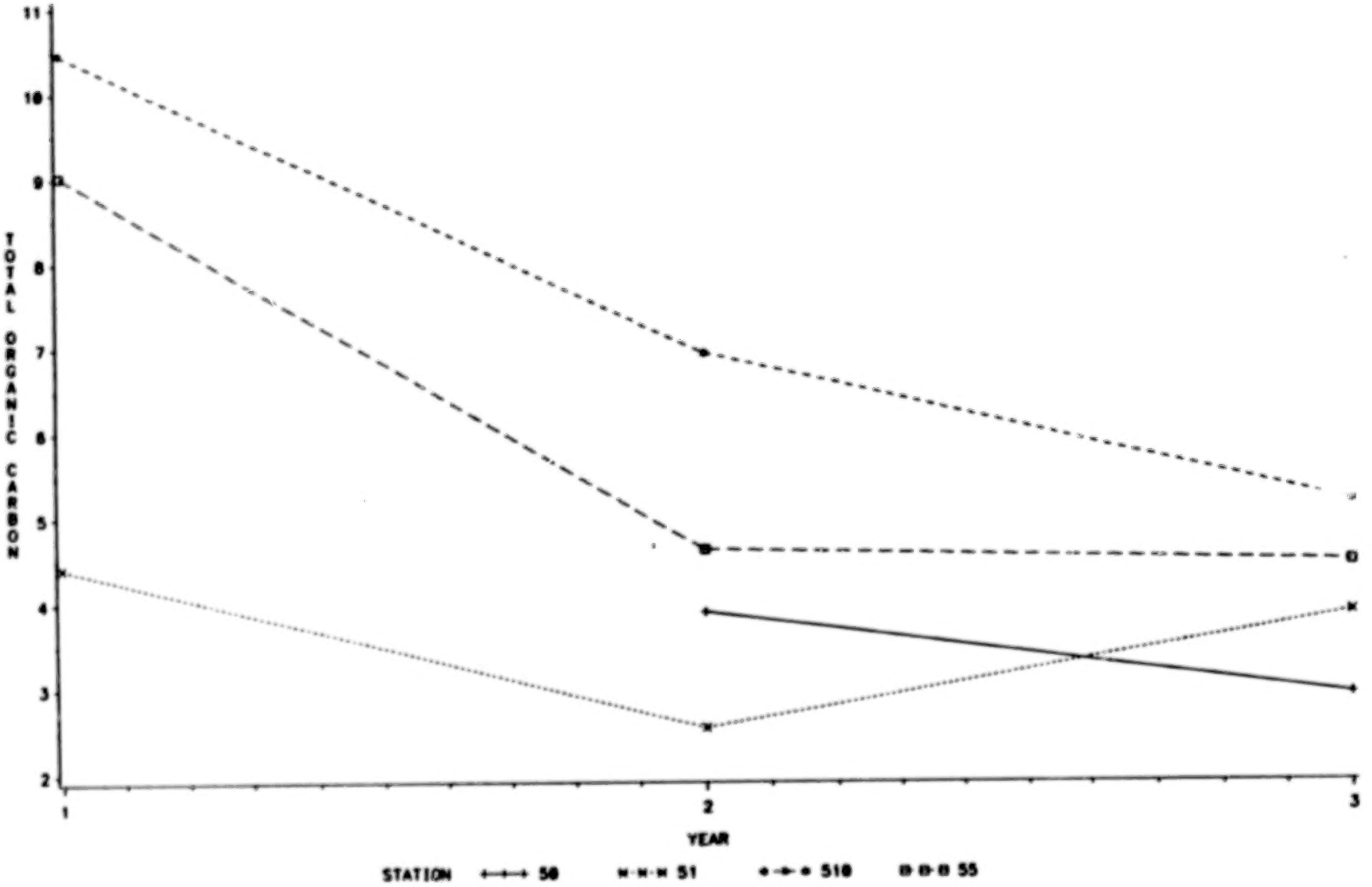
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, ALL YEARS

TYPE OF SEDIMENT: BULK



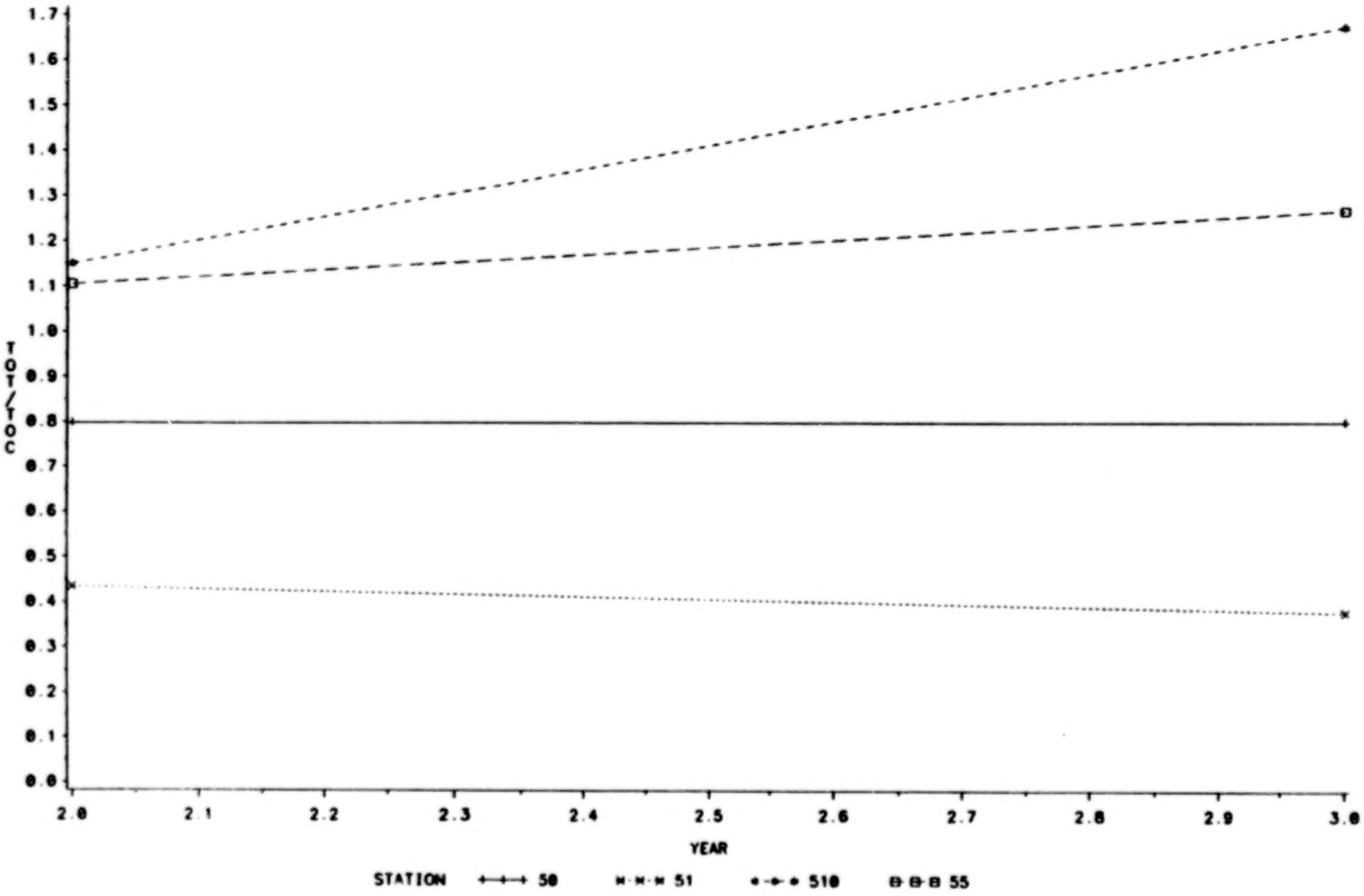
0379

SECTION 12

PLOTS OF GEOMETRIC MEANS OF SELECTED SEDIMENT PARAMETER RATIOS FOR THE ENDICOTT FIELD STATIONS FOR YEAR-2 AND YEAR-3

BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: BULK



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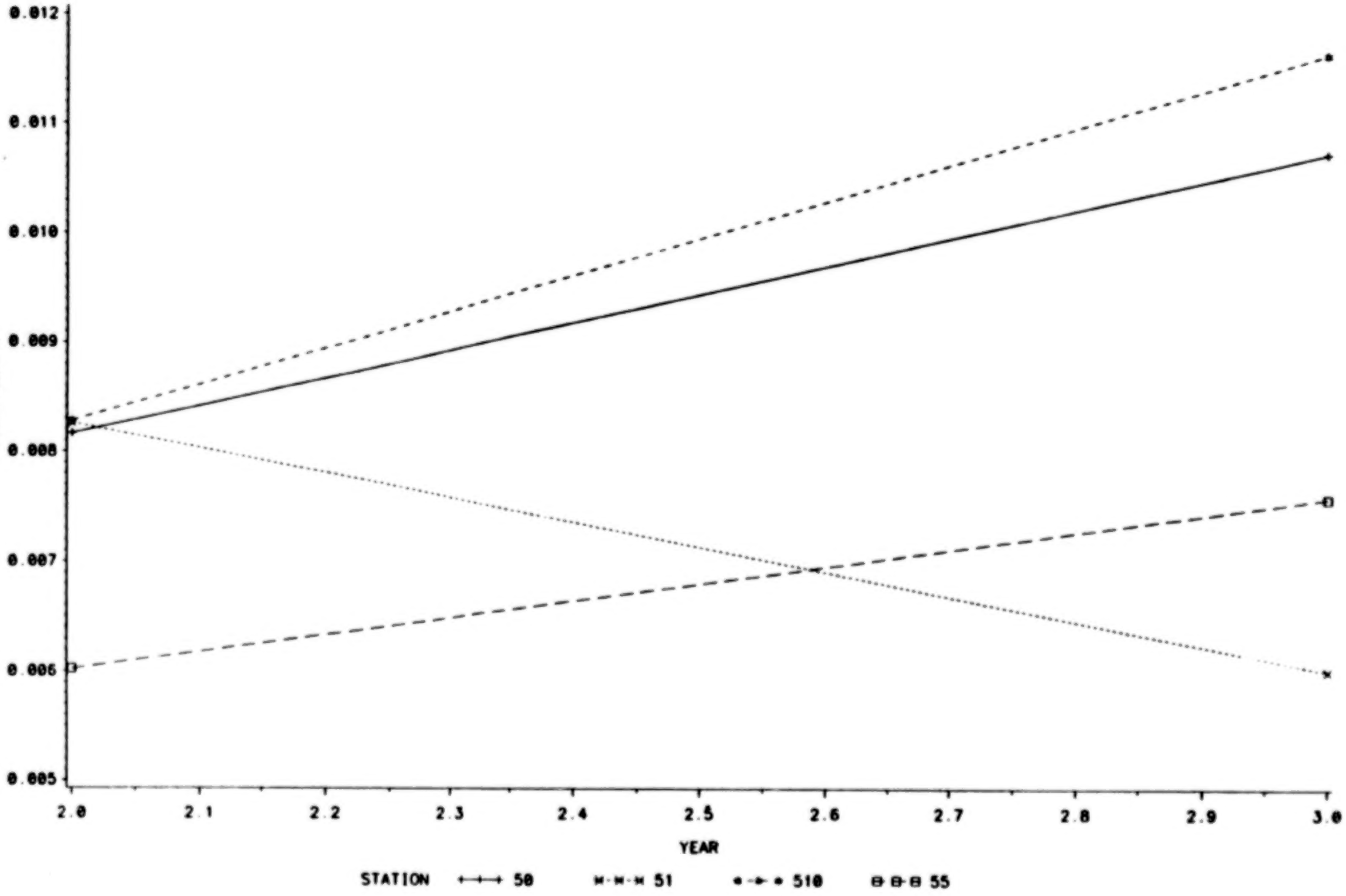
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: BULK



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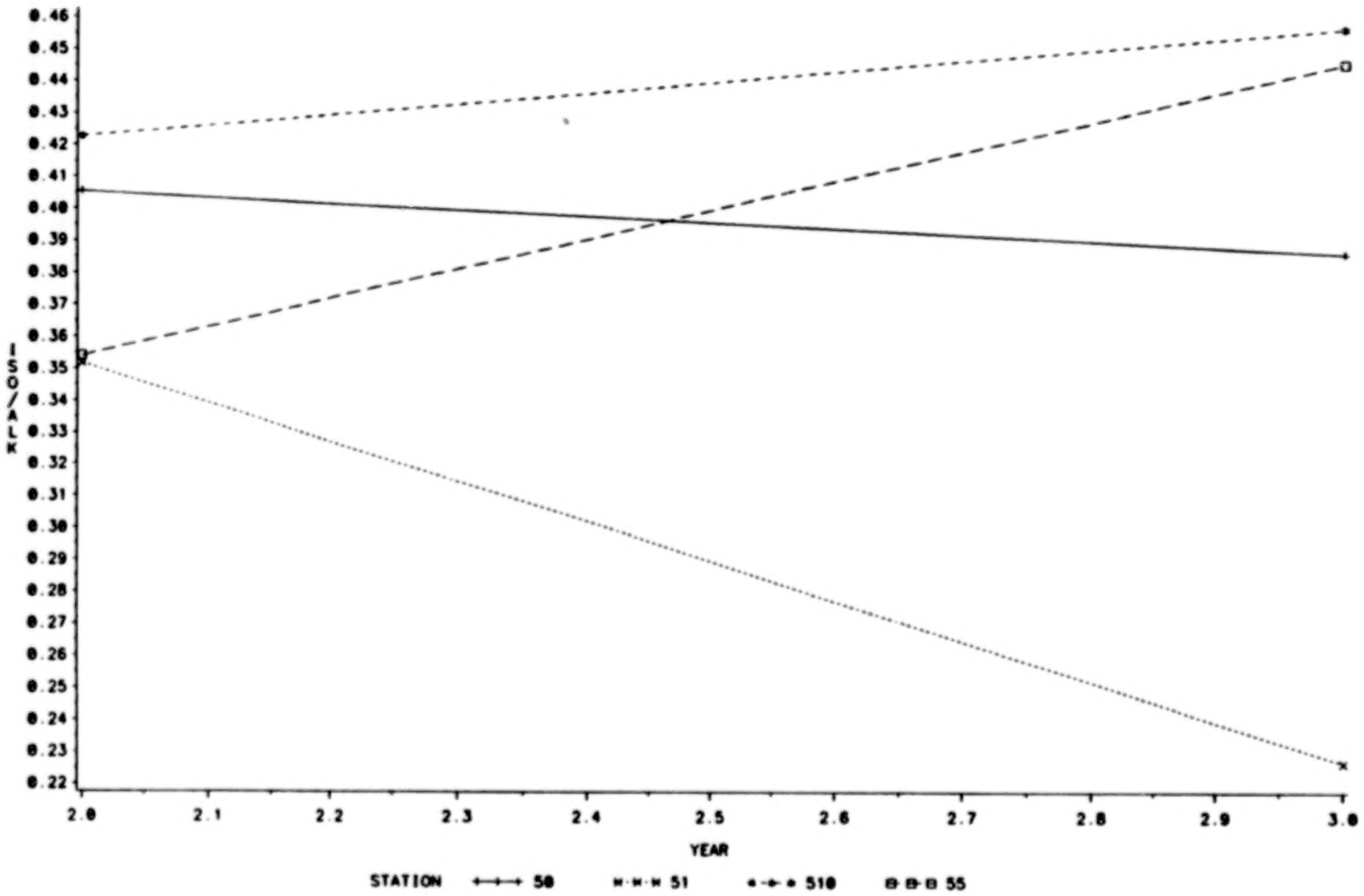
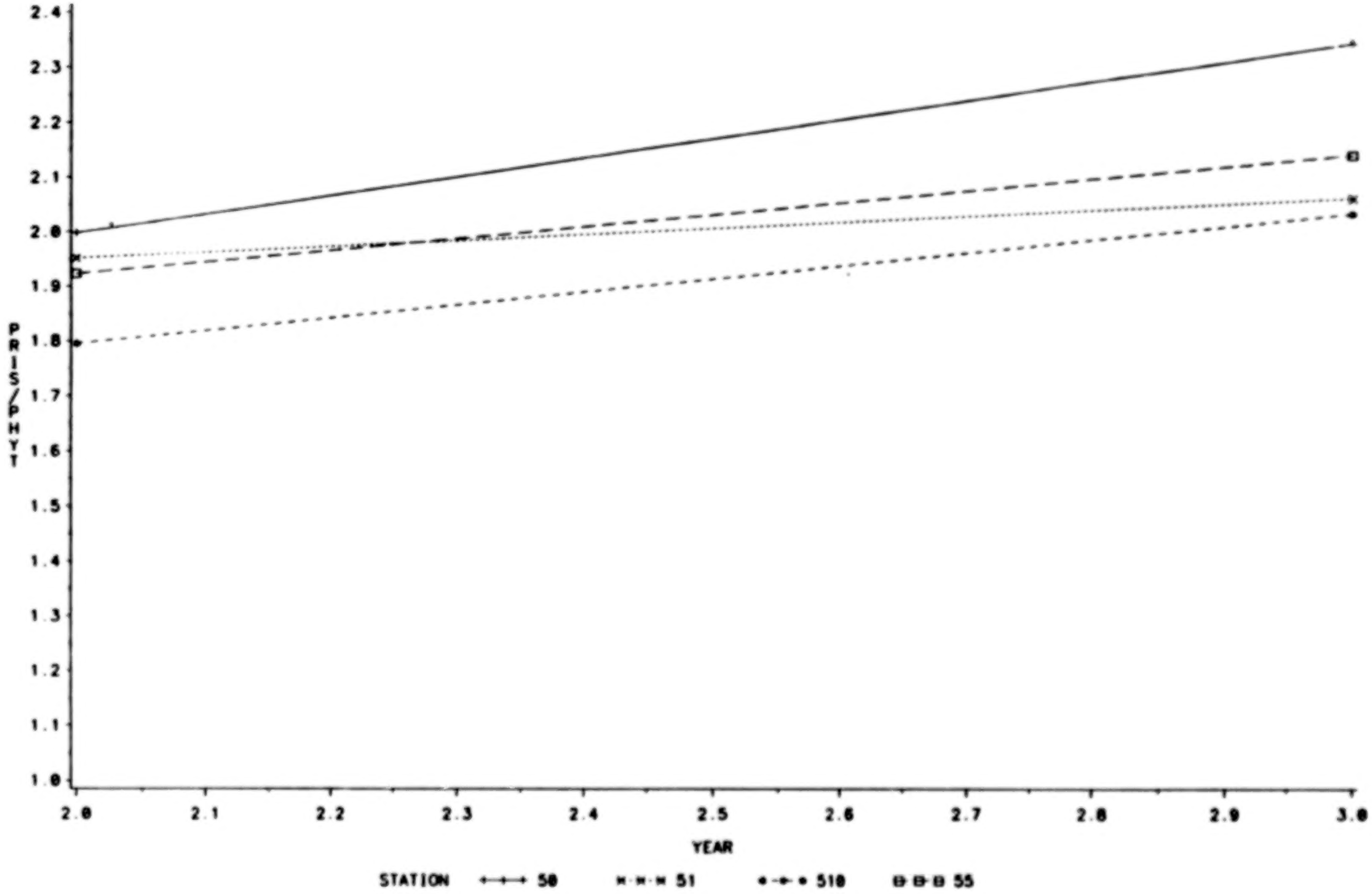
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: BULK



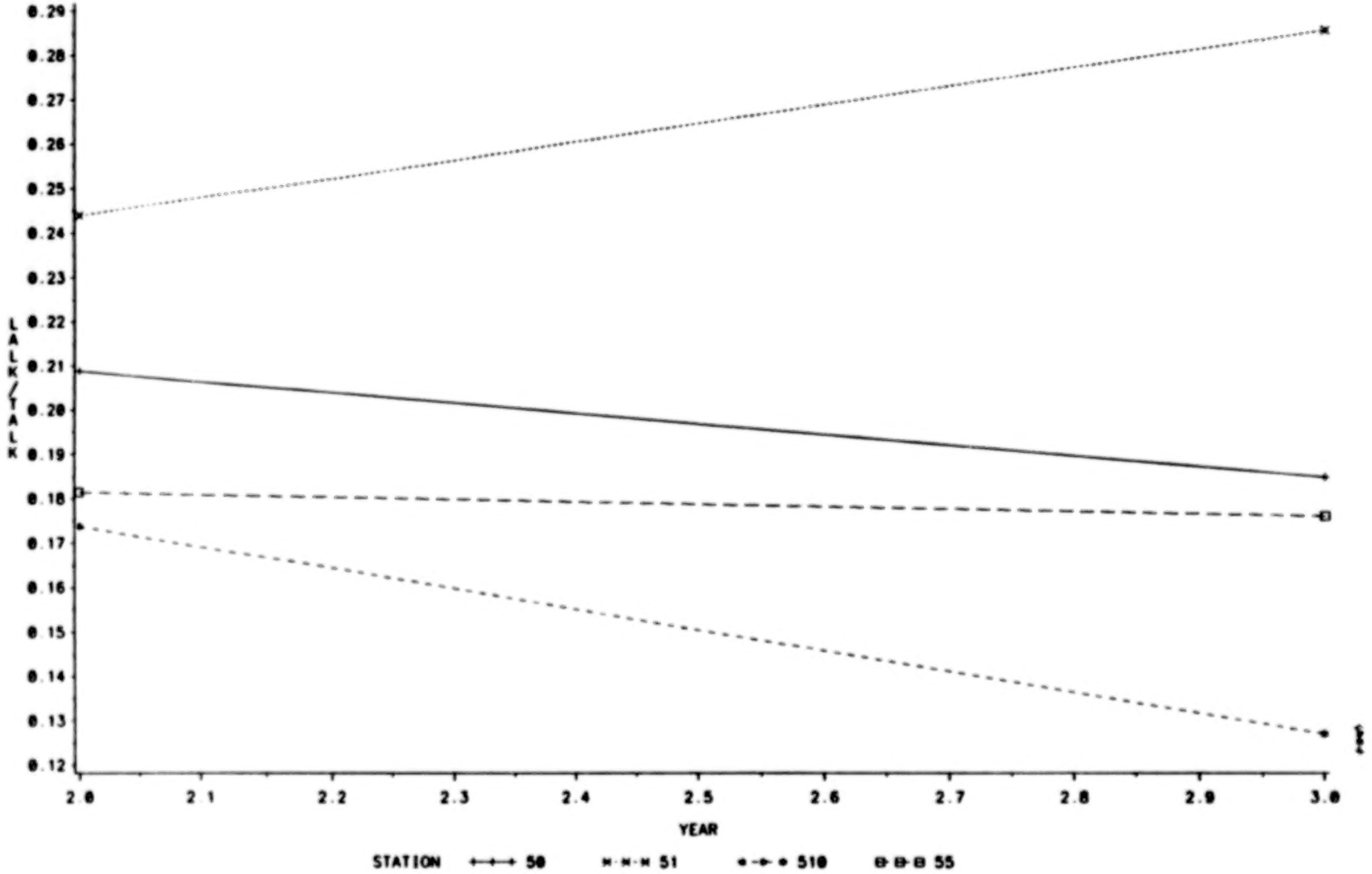
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: BULK



BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: BULK



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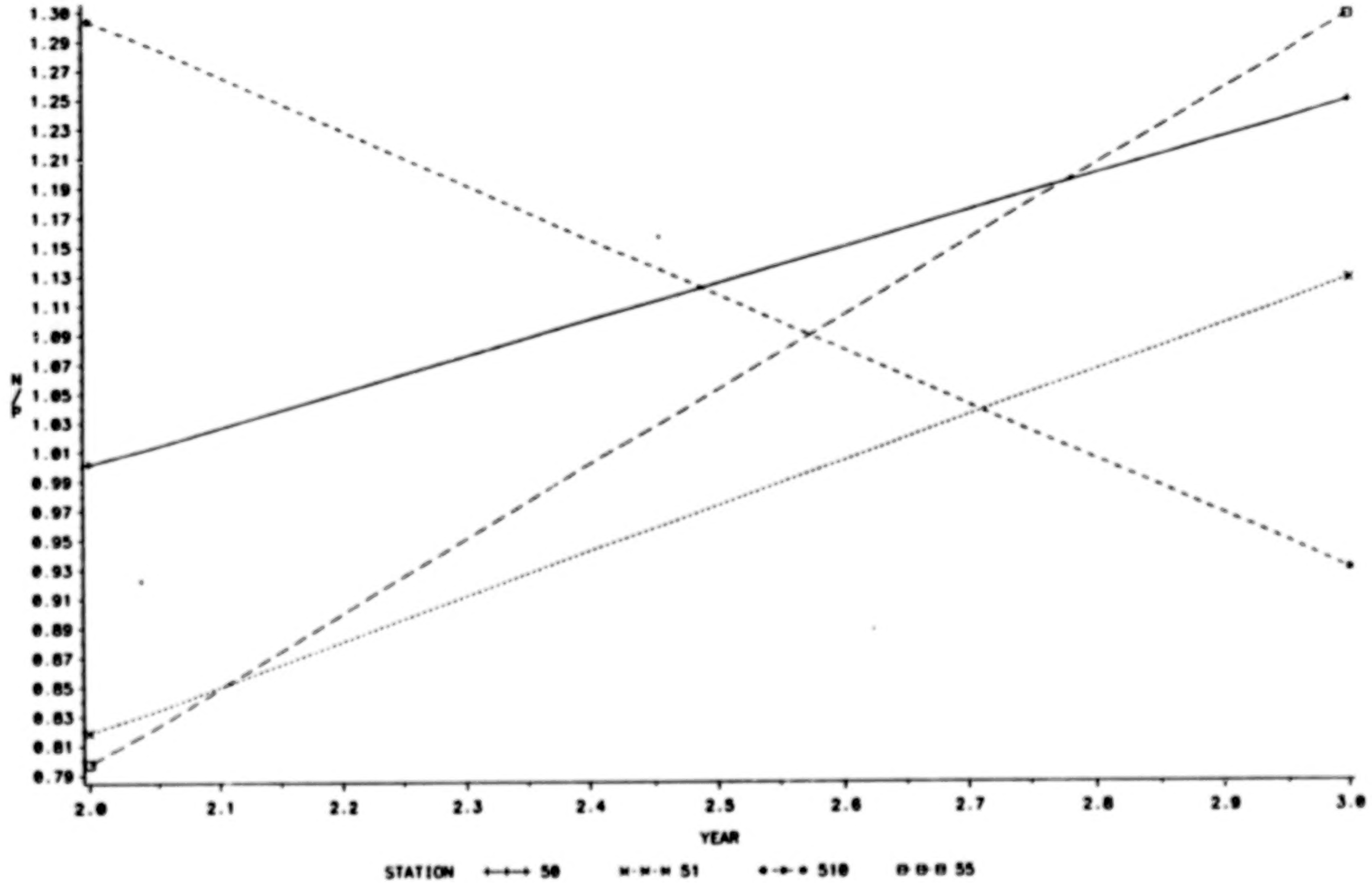
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: BULK



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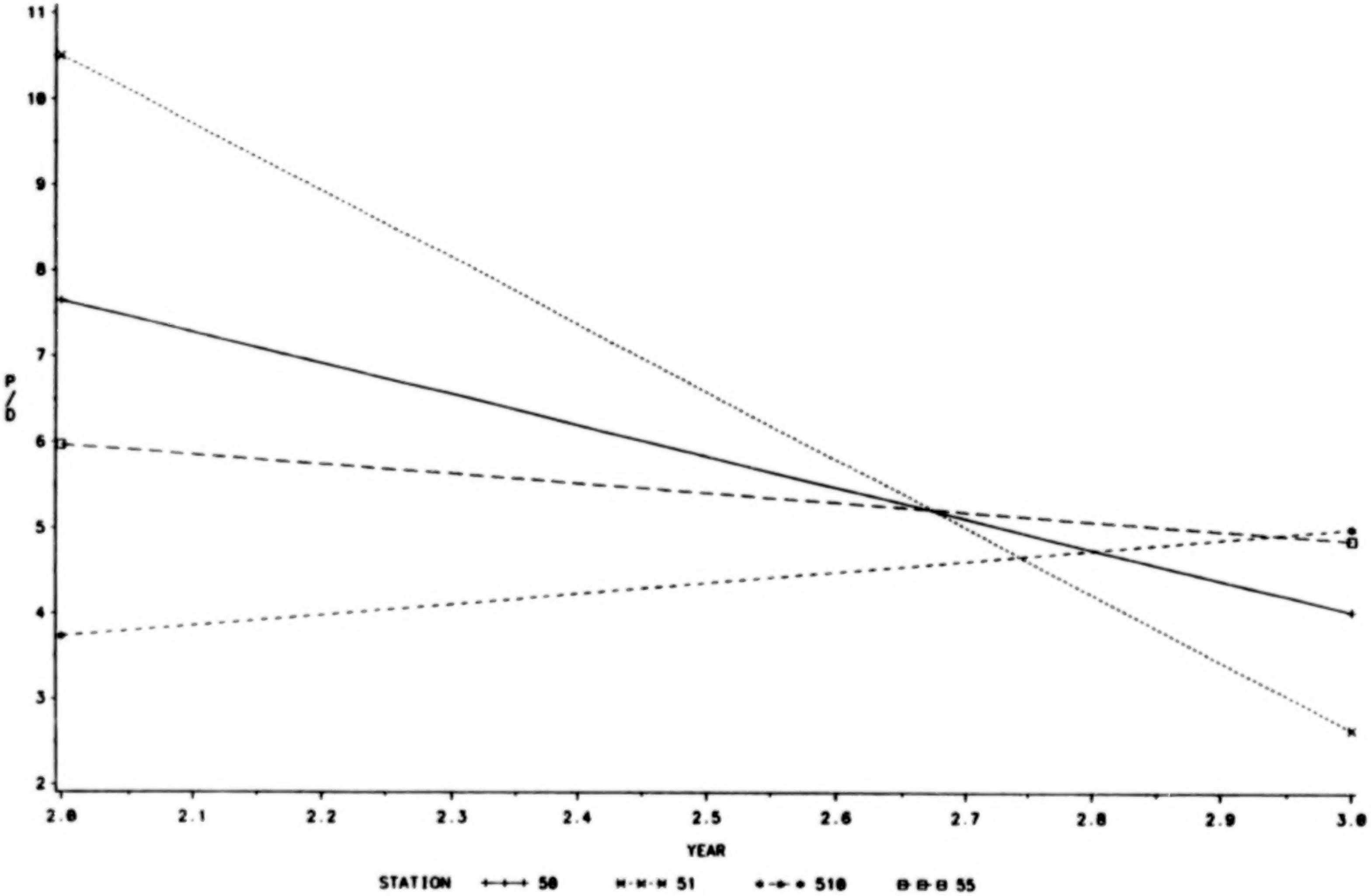
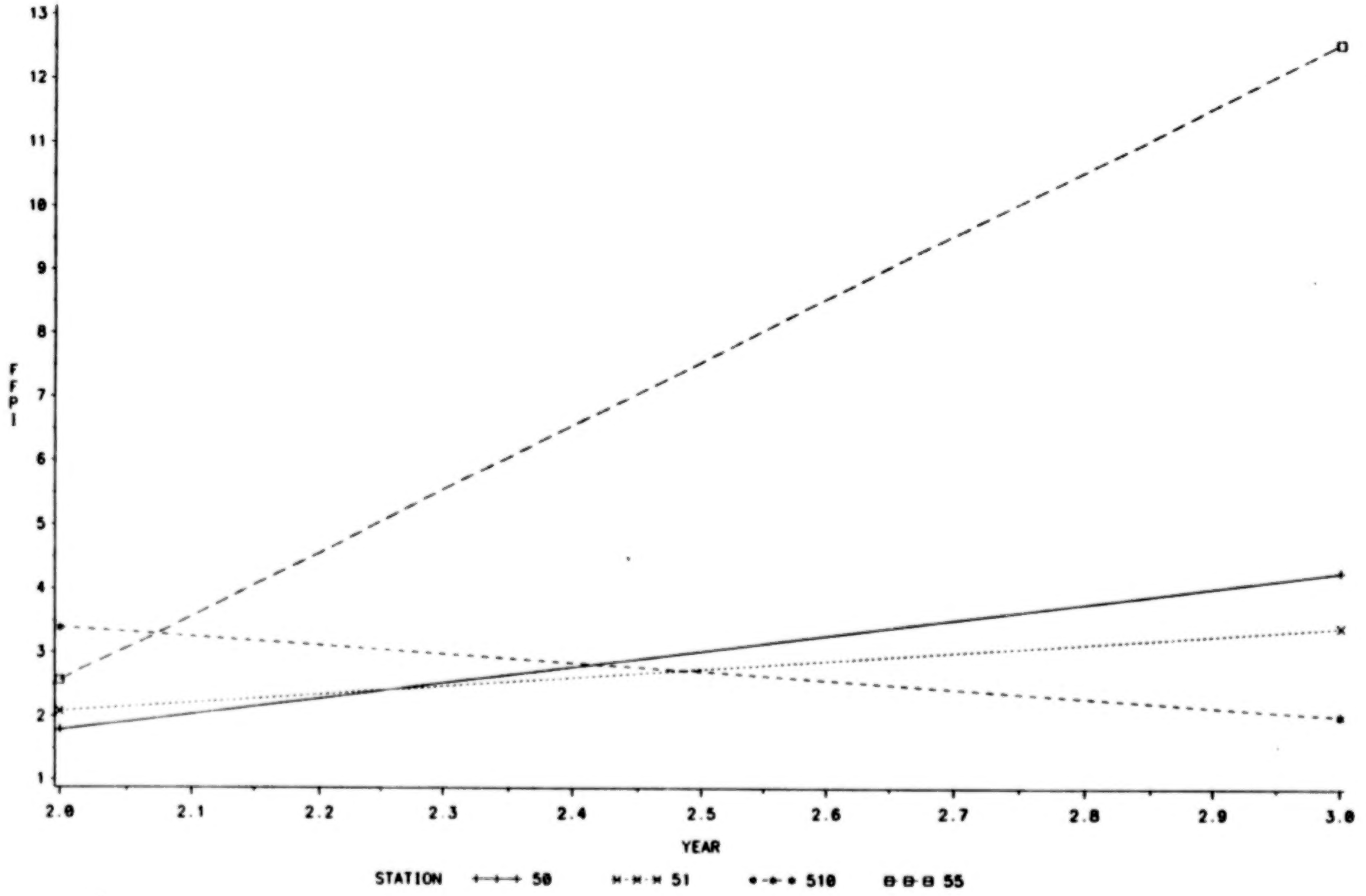
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: BULK



BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: BULK



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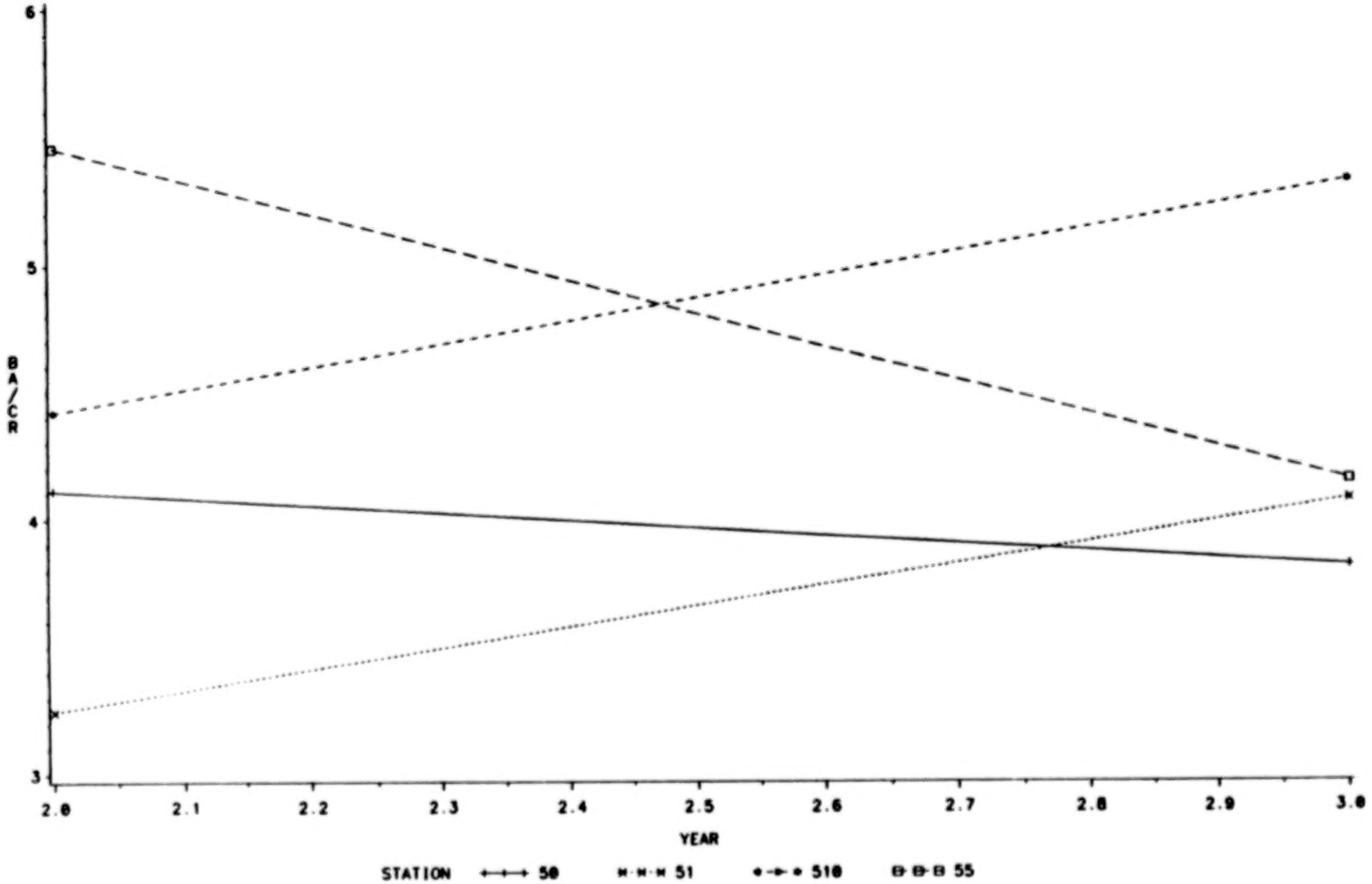
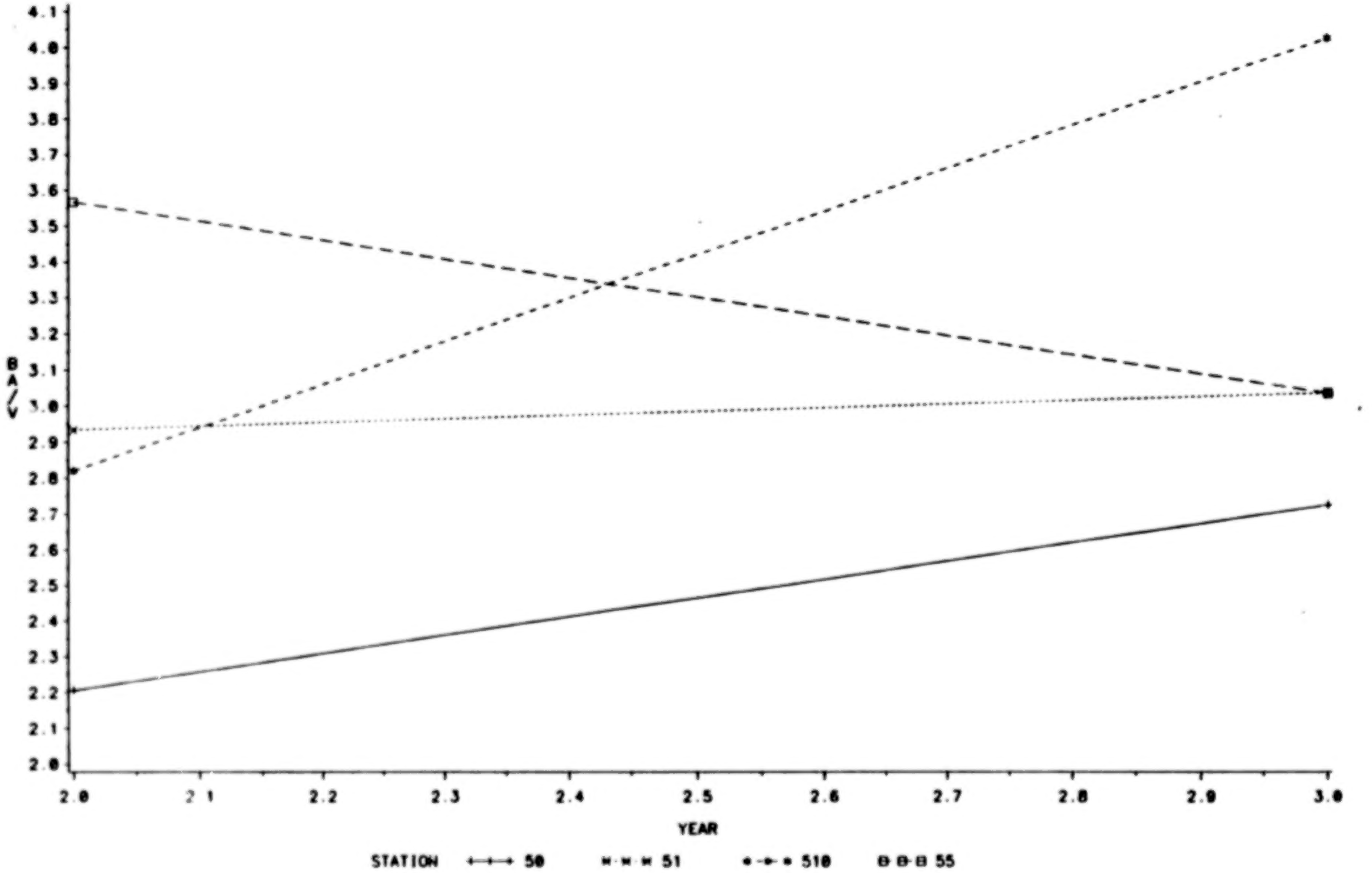
BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



BEAUFORT SEA MONITORING PROGRAM
PLOT OF YEARLY GEOMETRIC MEANS
ENDICOTT STATIONS, YEARS 2 AND 3

TYPE OF SEDIMENT: FINE



APPENDIX D

DESCRIPTION OF THE PRINCIPAL COMPONENTS ANALYSIS

PRINCIPAL COMPONENT ANALYSIS

Every sediment sample collected during this investigation was analyzed for a specific set of analytes or variables. In other words, each sample can be viewed as a single multivariate observation, and the collection of samples as a multivariate data set.

One goal of multivariate statistical analysis is dimension reduction. If, for example, there were only three analytes of interest during the investigation, there are three separate dimensions of variation. The data could be plotted on three perpendicular (orthogonal) axes in order to view the pattern of variation of these three analytes simultaneously. By looking at these points in three dimensions, a single line (or new axis) could be drawn through them, about which most of the variation could be explained. This new axis can be mathematically described as a linear combination of the three analyte concentrations and the new axis can also be considered a new variable whose values are a weighted sum of the three analytes of interest. When the new axis is determined, the three-dimensional problem is reduced to a one-dimensional problem, hence, the notion of dimension reduction. In four dimensions (i.e., four analytes), the ability to view the data, as in three dimensions, breaks down, but the mathematics do not.

Principal Components Analysis (PCA; Sharaf, et al., 1986) is a statistical method that allows the researcher to reduce an n-dimensional data set (i.e., n analytes per sample) to one, two, or three dimensions. The first Principal Component (PC) is a line or axis in n-dimensional hyperspace about which most of the variation in the multivariate observations is explained. This PC can be used as a new variable whose values are a linear combination or weighted sum of the n-analyte concentrations given as follows:

$$z_{1i} = a_1x_{1i} + a_2x_{2i} + \ldots.a_nx_{ni}$$

where z_{1i} is the value of the first PC for the ith sample, a_1 through a_n are the weights (often called loadings), and x_{1i} through x_{ni} are n-analyte concentrations.

The second PC is also a weighted sum of the same n analyte concentrations. The second PC is obtained mathematically under the constraint that the first and second PCs describe two

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orthogonal axes in the n-dimensional hyperspace. This means that the second PC is a second axis in the multivariate (n) space of the data about which additional variation not accounted for by the first PC is explained. Statistically, this is the same as saying that the correlation between z_1 and z_2 is zero.

Since there are n PCs in an n-dimensional data set, the total amount of variation in the multivariate data set is the sum of the variances of each PC. That is:

$$V = \mathrm{Var}(z_1) + \mathrm{Var}(z_2) + \ldots \mathrm{Var}(z_n)$$

where V is often called the total or generalized variance of the data.

Because of the sequential nature of PCA, each PC accounts for a successively lesser amount of the generalized variance. It is often the case that 60 to 80 percent of this variation is accounted for in the first two PCs. This means that if there are any patterns among the multivariate observations in n-space, these patterns are likely to be manifested in the first two PCs.

Pattern recognition is an important goal of PCA and is accomplished, in the Beaufort Sea data analysis, by plotting the values or scores of the first two PCs (score plot). These plots are meant to show in two dimensions what cannot be viewed in n dimensions, namely, patterns among the multivariate observations. Patterns are recognized as groups or clusters of points on the score plot that are all related in some way. For example, if two groups of PC scores were observed in a score plot of the Beaufort Sea sediment data, it may be that all points in one group correspond to stations nearer to drilling rigs while points in the other group may correspond to stations farther away from drilling rigs. Knowing the station identity of each corresponding PC score would help us determine if this is plausible for explaining the observed pattern.

In addition, a plot of the loadings of the first two PCs is also a useful pattern recognition tool. These loadings plots show the researcher which analytes appear to be making the greatest contribution to each PC. Typically, some analytes will have high loading for one PC but low loadings on the other. The score plot and the loadings, coupled with the information on the amount of the generalized variance explained by the first two PCs, are the most important tools for pattern recognition among the Beaufort Sea sediment data.

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